



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number 114403

TO: Minh-Tam Davis
Location: REM-3A24/3C18
Art Unit: 1642
Monday, February 23, 2004

Case Serial Number: 10085108

From: Toby Port
Location: Biotech-Chem Library
Remsen 1A59
Phone: 571-272-2523

toby.port@uspto.gov

Search Notes

Dear Examiner Davis,

Here are the results of your search.
Please feel free to contact me if you have any questions.

Toby Port

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 17:27:16 ; Search time 4182 Seconds
(without alignments)
10183.386 Million cell updates/sec

Title: US-10-085-108-21

Perfect score: 1041

Sequence: 1 ATGCTCTCTTTCACAACTT.....CTATCCAGTATCATCCCTAG 1041

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 2045481386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl.*

1: gb.ba.*
2: gb.htg.*
3: gb.in.*
4: gb.om.*
5: gb.ov.*
6: gb.pat.*
7: gb.ph.*
8: gb.pl.*
9: gb.pr.*
10: gb.ro.*
11: gb.sts.*
12: gb.sy.*
13: gb.un.*
14: gb.vi.*
15: em.ba.*
16: em.fun.*
17: em.hum.*
18: em.in.*
19: em.mu.*
20: em.om.*
21: em.or.*
22: em.ov.*
23: em.pat.*
24: em.ph.*
25: em.pl.*
26: em.ro.*
27: em.sts.*
28: em.un.*
29: em.vi.*
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31: em.htg.inv.*
32: em.htg.other.*
33: em.htg.mus.*
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35: em.htg.rod.*
36: em.htg.vrt.*
37: em.htg.vrt.*
38: em.sy.*
39: em.htgo.hum.*
40: em.htgo.mus.*
41: em.htgo.other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1041	100.0	124497	9	HS232G24
2	622.8	59.8	141672	9	HS142F18
3	607	58.3	1932	9	AF490508 Homo sapi
4	554	53.2	37757	9	HS326L12
5	534.4	51.3	116210	9	HS406C18
6	533	51.2	533	9	AF333706 Homo sapi
7	486.4	46.7	1734	9	BC005891 Homo sapi
8	486.4	46.7	1983	6	AR243321 Sequence
9	486.4	46.7	1983	6	BD106883 Isolated
10	486.4	46.7	1983	9	AF151378 Homo sapi
11	486.4	46.7	1983	9	AF196482 Homo sapi
12	486.4	46.7	2887	9	AF196483 Homo sapi
13	486.4	46.7	2887	9	AF239802 Homo sapi
14	486.4	46.7	2940	6	AR243322 Sequence
15	486.4	46.7	2940	6	BD106884 Isolated
16	486.4	46.7	3272	9	AF116195 Homo sapi
17	484.8	46.6	1958	9	AF116194 Homo sapi
18	484.8	46.6	2025	9	BC013318 Homo sapi
19	411.4	39.5	4031	6	AR243307 Sequence
20	411.4	39.5	4031	6	BD106868 Isolated
21	411.4	39.5	4225	6	AR243314 Sequence
22	411.4	39.5	4225	6	BD106875 Isolated
23	411.4	39.5	4265	6	AR171862 Sequence
24	411.4	39.5	4265	9	AF056334 Homo sapi
25	411.4	39.5	6471	9	AF064589 Homo sapi
26	409.8	39.4	4488	9	BC025969 Homo sapi
27	399	38.3	274128	2	AC144277 Macaca mu
28	342.2	32.9	1528	9	BC004105 Homo sapi
29	342.2	32.9	2559	6	AR070825 Sequence
30	342.2	32.9	2559	6	AR120096 Sequence
31	342.2	32.9	2559	6	AR142176 Sequence
32	342.2	32.9	2559	6	AR147416 Sequence
33	342.2	32.9	2559	6	AR267625 Sequence
34	342.2	32.9	2559	6	AX026470 Sequence
35	342.2	32.9	2559	6	BD085552 MAGE-10 e
36	342.2	32.9	3510	6	AR167380 Sequence
37	342.2	32.9	3510	6	AX026469 Sequence
38	342.2	32.9	3510	9	HSU10685 Human MAGE-
39	339	32.6	169351	9	AC116666 Homo sapi
40	339	32.6	178515	2	AC009621 Homo sapi
41	323.2	31.0	957	9	BT007340 Homo sapi
42	323.2	31.0	957	12	BT008142 Synthetic
43	323.2	31.0	1801	9	BC012744 Homo sapi
44	323.2	31.0	1843	9	BC002455 Homo sapi
45	321.6	30.9	72968	9	AC016941 Homo sapi

ALIGNMENTS

RESULT 1
HS232G24
LOCUS
DEFINITION
Human DNA sequence from clone RP6-232G24 on chromosome Xq27.1-27.3
Contains the gene for the melanoma antigen gene family protein,
MAGEC3 and the MAGEC1 gene for melanoma antigen, family C.1,
complete sequence.
ACCESSION
AL022152
VERSION
AL022152.1 GI:3150086
KEYWORDS
HTG; MAGEC1; MAGEC3.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 124497)

AUTHORS TITLE JOURNAL

Bird, C.
Direct Submission
Submitted (08-MAR-2002) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
humquies@sanger.ac.uk
On May 22, 1998 this sequence version replaced GI:2969932.
During sequence assembly data is compared from overlapping clones.
Where differences are found they are annotated as variations
together with a note of the overlapping clone name. Note that the
variation annotation may not be found in the sequence submission
corresponding to the overlapping clone, as we submit sequences with
only a small overlap as described above.
This sequence was finished as follows unless otherwise noted: all
regions were either double-stranded or sequenced with an alternate
chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by at least
one plasmid subclone or more than one M13 subclone; and the
assembly was confirmed by restriction digest. The following
abbreviations are used to associate primary accession numbers given
in the feature table with their source databases: Em, EMBL; Sw,
SWISSPROT; Tr, TrEMBL; Wp, WORMPEP; Information on the WORMPEP
database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence
was generated from part of bacterial clone contigs of human
chromosome X, constructed by the Sanger Centre Chromosome X Mapping
Group. Further information can be found at
http://www.sanger.ac.uk/HGP/ChrX
RP6-232G24 is from the library RPCI-6 constructed by the group of
Pieter de Jong. For further details see
http://www.chori.org/bacpac/home.htm
VECTOR: pPAC4

FEATURES

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/mol_type="genomic DNA"
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/db_xref="taxon:9606"
/chromosome="X"
/map="q27.1-27.3"
/clone="RP6-232G24"
/clone_lib="RPCI-6"
6..354
/note="L1MC2 repeat: matches 5195. .5546 of consensus"
356..762
/note="L1MC2 repeat: matches 5843. .6246 of consensus"
763..794
/note="16 copies 2 mer tg 93% conserved"
946..1161
/note="L1ME1 repeat: matches 5354. .5569 of consensus"
1181..1399
/note="L1ME1 repeat: matches 5914. .6136 of consensus"
1471..1606
/note="L2 repeat: matches 2574. .2708 of consensus"
1939..2330
/note="14 copies 28 mer 57% conserved"
1969..2326
/note="179 copies 2 mer gg 57% conserved"
1972..2331
/note="20 copies 18 mer 59% conserved"
1996..2265
/note="5 copies 54 mer 65% conserved"
2029..2181
/note="3 copies 51 mer 74% conserved"
2153..2347
/note="5 copies 39 mer 65% conserved"
2426..4801
/gene="da232G24.1"
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/gene="da232G24.1"
/product="da232G24.1 (Melanoma antigen gene family

protein, MAGEC3)"
/note="(possible pseudogene)"
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match: ESTs: Em:BI460078
/evidence=not_experimental
2827..2872
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3761..4801
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Tr:Q95529 Tr:Q9R2A2 Sw:O15479 Tr:O89006 Tr:Q9BUN9
Tr:Q96W61"
/codon_start=1
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/product="da232G24.1 (Melanoma antigen gene family
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KVALVOFLLLKYQTKPVTKAEMLTWIKKYDYFPMFKAHFELIFGIALTDM
PDNHSVEFDLTLVEGSLDDQGMKCLLLILSMIFIKGSCVPEVIMVLSA
IGVCAGREHTFYGDPRKLLIHWQKYLEVFPNSAPRYEFLWGFRAHSEASKES
LRVFIQAIQXHP"
3876..3959
/note="7 copies 12 mer 72% conserved"
4027..4110
/note="7 copies 12 mer 88% conserved"
complement(5293..5441)
/note="match: GSS: Em:AQ060261"
6422..6624
/note="MIR repeat: matches 47. .261 of consensus"
8315..8700
/note="MLRIB repeat: matches 1. .390 of consensus"
9138..9250
/note="MLRIB repeat: matches 1. .130 of consensus"
9287..9731
/note="L1MC3 repeat: matches 7166. .7618 of consensus"
11002..16491
/gene="MAGEC1"
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/product="da232G24.2 (Melanoma antigen gene family
protein, MAGEC1)"
/note="match: cDNAs: Em:AF056334
match: ESTs: Em:AI652057 Em:AL121366 Em:AI126114
Em:BG480822"
/evidence=not_experimental
complement(11962..12294)
/note="match: GSS: Em:AQ064665"
join(12181..12184,12517..15941)
/gene="MAGEC1"
/note="match: proteins: Sw:O60732 Tr:Q95529 Sw:Q9UBF1
Tr:Q96D45 Tr:Q99NC2 Tr:Q99PH7 Sw:Q9Y5V3"
/codon_start=1
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/product="da232G24.2 (Melanoma antigen gene family
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/protein_id="CAD27434.1"
/db_xref="GI:20095260"
/translation="MGDKDMPTAGMPSLLQSSSPSCPCEGDSQSPQLQPQSPSPS
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SVLQIPVSAASSTLVISIFQSPSPSTQSPPEGFPQSPQIPVSRSFQSSIFQSP
ERTOSTREGFAQSPQIPVSPSSSTLLSFQSPFSTOSTFEGFAOSSLQIPVSPSP
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PERTHSTFEGFPQSPQIPMTSPSSSTLLSILQSPSPAQAFEGFPQSPQIPVSSS
FSYTLISLQSPSPERTHSTFEGFPQSPQIPVSSSSSTLLSLFQSPSPSTQSPTEG
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Query Match	100.0.0%;	Score 1041;	DB 9;	Length 124497;
Best Local Similarity	100.0.0%;	Pred. No. 2.7e-297;		
Matches 1041;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	ATGCCTCTCTTTCCAAACCTTCCACGGCTCAGCTTTTGAGGAAGACTTCCAGAAACCCGAGT	60	
Db	3761	ATGCCTCTCTTTCCAAACCTTCCACGGCTCAGCTTTTGAGGAAGACTTCCAGAAACCCGAGT	3820	
QY	61	GTGACAGAGACTTGTGTAGATGACACAGGATTCATATAGATGAGGAGGAGGAGTGCCTCC	120	
Db	3821	GTGACAGAGACTTGTGTAGATGACACAGGATTCATATAGATGAGGAGGAGGAGTGCCTCC	3880	
QY	121	TCCACTTCCTCTTCCCTTTTCCACTTTTATTCCTCCCTCCCTCTTCTTCTCTCATCC	180	
Db	3881	TCCACTTCCTCTTCCCTTTTCCACTTTTATTCCTCCCTCCCTCTTCTTCTCTCATCC	3940	
QY	181	TCACCCCTGTGCTTCACGCCCTTACGCTCTACTCTCATTTCTGGGTGTTCCAGAAGATGAGGAT	240	
Db	3941	TCACCCCTGTGCTTCACGCCCTTACGCTCTACTCTCATTTCTGGGTGTTCCAGAAGATGAGGAT	4000	
QY	241	ATGCCTGTCTGTGGATGCCACCTCTTCCCGAGAGTCTCTCTGAGATTCTCTCCGAGGGT	300	
Db	4001	ATGCCTGTCTGTGGATGCCACCTCTTCCCGAGAGTCTCTCTGAGATTCTCTCCGAGGGT	4060	
QY	301	CCTTCCCAAGATCTCTCCCGCAGGGTCTCCCGCAGAGTCTCTCCCGAGTCTCTCTAGACTCC	360	
Db	4061	CCTTCCCAAGATCTCTCCCGCAGGGTCTCCCGCAGAGTCTCTCTAGACTCTCTCTAGACTCC	4120	
QY	361	TGCTCATCCCTCTTTTGTGGACCCGATTGGATGAGGAGTCCAGCAGTGAAGAGGAGGAT	420	
Db	4121	TGCTCATCCCTCTTTTGTGGACCCGATTGGATGAGGAGTCCAGCAGTGAAGAGGAGGAT	4180	

RESULT 2	
HS142F18/c	
LOCUS	HS142F18 141672 bp DNA linear PRI 22-NOV-2001
DEFINITION	Human DNA sequence from clone RP1-142F18 on chromosome Xq26.3-27.2, complete sequence.
ACCESSION	AL031073.1 GI:4090213
VERSION	HTG.
KEYWORDS	Homo sapiens (human)
SOURCE	Homo sapiens
ORGANISM	Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 (Bases 1 to 141672)
AUTHORS	Pavitt, R.
TITLE	Direct Submission
JOURNAL	Submitted (22-NOV-2001) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
COMMENT	On Dec 31, 1998 this sequence version replaced gi:3646045

During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate


```

repeat_region 17783..18359
/Note="LTR198 repeat: matches 1..580 of consensus"
repeat_region 24178..24397
/Note="110 copies 2 mer 99 55% conserved"
repeat_region 28844..29294
/Note="MLT2A repeat: matches 1..453 of consensus"
repeat_region 29295..29743
/Note="HERVL repeat: matches 1..452 of consensus"
repeat_region 29742..30149
/Note="HERVL repeat: matches 726..1133 of consensus"
repeat_region 30454..34882
/Note="HERVL repeat: matches 1133..5557 of consensus"
repeat_region 34888..34960
/Note="MLT2A repeat: matches 381..453 of consensus"
repeat_region 36421..36560
/Note="70 copies 2 mer ta 75% conserved"
misc_feature 37525..37754
/Note="match: GSS: Em:AQ503756"
misc_feature 37525..37718
/Note="match: GSS: Em:AQ38088"
BASE COUNT 11703 a 7060 c 7919 g 11075 t
ORIGIN
Query Match 53.2%; Score 554; DB 9; Length 37757;
Best Local Similarity 73.5%; Pred. No.1e-152;
Matches 766; Conservative 0; Mismatches 260; Indels 16; Gaps 4;
QY 1 ATGCTCTCTCTTCCAAACCTTCACGCTCAGCTTGGAGAGACTTCCAGAACCCGAGT 60
DB 25743 ATGCTCTCTCTTGGAAATGTTCTAGCGCACTTTCAGAAAGACTTCCAGAACCAACT 25802
QY 61 GTGACAGAGACTTGGTAGATGACAGAGATTCATAGATGAGGAGGAGGATGCTCC 120
DB 25803 GTGATAGAGAACTTGGCAGATGACAGAGATTCACAGAGGAGGAGGAGGAGAACTCC 25862
QY 121 TCCACTCTCTCTCTCTTCCACTTTTATTCCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
DB 25863 TCCATTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 25916
QY 181 TCACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
DB 25917 TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 25976
QY 241 ATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
DB 25977 ATTCTTGGTCTCATGAGGAGGAGGAGGAGTACTGTCTGCTGGGATGCTGCC-----T 26030
QY 301 CTTCCCAAGATCTCTCCCGAGGCTCTCCGAGAGTCTCTCCGAGAGTCTCTAGACTCC 360
DB 26031 CTTCCCAAGATCTCTCTGAGAGTCTCTCCCGAGGCTCTCTCCAGGGTCTCTCTCTCTCT 26090
QY 361 TGCTCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 420
DB 26091 TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 26150
QY 421 ACAGCTACTTGGGATGCTTGGCAGAAAGTGAATCTTCCCGAGGATGCTCTCTCTCTCTCTCT 480
DB 26151 ACAAGTACTTGGCAGAGCTTGGCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 26210
QY 481 AGGTGGCTGAGTGGTGGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 540
DB 26211 AGGTGGAGCAAGTGGTGGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 26270
QY 541 AAGGCAGAGATGCTGACGACTGTCTCAAGAAAGTATAAGGACTATTTTCCCATGATCTTC 600
DB 26271 AGAGCAGAGATGAGATGATGTCTATCAATACATACACGAGGACTCTCTCTCTCTCTCTCT 26330
QY 601 GGGAAAGCCCATGAGTTCATAGAGTAAATTTTGGCAATTCGCTGACTGATGAGACCC 660
DB 26331 AGGAAAGCCCGTGAAGTTCATAGAGATCTCTTTTGGCAATTCCTCTCTCTCTCTCTCTCTCT 26390
QY 661 GACACCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 720

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Db 26391 G---ACCATTTTCTATGTCTTTTGTAAACACATTAGACCTCACCTGTGAGGGAGTCTGAGT 26447
QY 721 GATGACCGGGCATCCCAAGAACCTGTCTCCTGATTCTTATTTCTCAGTATGATCTTCTATA 780
Db 26448 GATGACGAGGGCATCCCAAGAACCCGCTCTCTGATTTCTTATTTCTGAGTGTGATCTTATA 26507
QY 781 AAGGCGAGCTGTGTCTCCCGAGGAGGTCTATCTGGGAAGTGTCTGAGTCAATAGGGGTGTGT 840
Db 26508 AAGGCGAACTGTGATCTGAGGAGGTCTATCTGGGAAGTGTCTGATGCAATAGGGGTGTGT 26567
QY 841 GCTGGGAGGAGCACTTTATATATGAGGATCCCAAGAACTCTCTCCTCACTATACATTGGGTG 900
Db 26568 GCTCAGAGGAGCACTTTCTCTATCTGGGAGGCCAGGAGCTTGTCTCACTAAAGTTTGAGT 26627
QY 901 CAGAAAGTACTCTGAGTACCGGAGGTGCCCAAGTGTCTCTCCACAGTCTCTCCAGTTATGATTT 960
Db 26628 CAGGACATTACTGAGTAGGACATGTGCCAGTAGTGTCTCTCCAGCTTATGATTTATTC 26687
QY 961 TTGTGGGTCCAAGGCCCAATTCAGAGGCCAGCAAGA-GAAGTCTTTAGAGTTTATATCCA 1019
Db 26688 CTGTGGGTCTCTAGAGCCCAATTCAGAAACTAGCAAGAGGAAAGTAGTAGATTTTGGTCA 26747
QY 1020 AGCTATCCGATATCATCCCTAG 1041
Db 26748 TGTGAAACAAATACCGTCTCTAG 26769

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RESULT 5
HS406C18/c
LOCUS
DEFINITION
Human DNA sequence from clone RP3-406C18 on chromosome Xq27.1-27.3,
complete sequence.
ACCESSION
AL023773
VERSION
AL023773.1 GI:3449129
KEYWORDS
HTG.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini, Hominidae; Homo.
REFERENCE
1 (bases 1 to 116210)
AUTHORS
Pearce,A.
DIRECT SUBMISSION
Submitted (05-MAR-2003) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
On Aug 21, 1998 this sequence version replaced gi:3288039.
COMMENT
-----
Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk
-----

```

During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em: EMBL; Sw: SWISSPROT; Tr: TrEMBL; Wp: WORMPEP; Information on the WORMPEP database can be found at <http://www.sanger.ac.uk/Projects/C.elegans/wormpep> This sequence was generated from part of bacterial clone contigs of human chromosome X, constructed by the Sanger Centre Chromosome X Mapping

Group. Further information can be found at
<http://www.sanger.ac.uk/HGP/chrX>
 RP3-406C18 is from the library RPI-3 constructed by the group of
 Pieter de Jong. For further details see
<http://www.chori.org/bacpac/home.htm>
 VECTOR: pCYPAC2.

FEATURES

```

source
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/mol_type="genomic DNA"
/db_xref="RZPD:RP3-406C18"
/db_xref="taxon:9606"
/chromosome="X"
/map="q27.1-27.3"
/clone="RP3-406C18"
/clone_lib="RPI-3"
BASE COUNT 35590 a 22206 c 22413 g 36001 t
ORIGIN
Query Match 51.3%; Score 534.4; DB 9; Length 116210;
Best Local Similarity 75.3%; Pred. No. 7.9e-147;
Matches 786; Conservative 0; Mismatches 131; Indels 67; Gaps 7;

QY 1 ATGCCTCTCTTCCAAACCTTCCACGCTCAGCTTTGAGGAAGACTTCCAGAACCCGAGT 60
DB |||
QY 61 GTGACAGAGACTTGTGATGATGACAGAGTCCATAGATGAGGAGGAGGAGTCCCTCC 120
DB |||
QY 61 GTGACAGAGACTTGTGATGATGACAGAGTCCATAGATGAGGAGGAGGAGTCCCTCC 120
DB |||
QY 121 TCCACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
DB |||
QY 181 TCACCTCTGTCTCACCTCTACCTCTACTCTACTCTACTCTACTCTACTCTACTCTACTCT 240
DB |||
QY 241 ATGCCTGTCTGTGGATGCTCCACCTCTCTCCAGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
DB |||
QY 241 ATGCCTGTCTGTGGATGCTCCACCTCTCTCCAGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
DB |||
QY 301 CTTCCCAAGACTCTCTCCCAAGGCTCTCTCCAGAGTCTCTCCCAAGAGTCTCTCTCTCTCTCTCTCT 360
DB |||
QY 361 TGCTCATCCCTCTTTTGTGACCCGATGATGATGAGGAGTCCAGAGTCCAGAGGAGGAT 420
DB |||
QY 421 ACAGCT--ACTTGCATGCTTGTGACCCGATGATGATGAGGAGTCCAGAGTCCAGAGGAGGAT 478
DB |||
QY 479 AAAAGGTGGCTGAGTGTGTGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 538
DB |||
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QY 659 CCGCAACCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 718
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DB 98974 ATGCTGGAGGAGCAGCTTCTGCTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 98915
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QY 959 TTTTGTGGGTCCAAAGAGCCATTCAGAGGCCAGCAG--AGAAGTCTTAGATTTTAT 1016
DB |||
DB 98854 TCTGTGGGTGCCAAGAGCCATTCAGAAAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 98795
QY 1017 CCAAGCTATCCAGTATCATCCCTA 1040
DB |||
DB 98794 CCAAGCTATCATAGTATCCCTA 98771

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LOCUS Homo sapiens MAGE family testis and tumor-specific protein (MAGEC3)
DEFINITION gene, partial cds.
ACCESSION AF333706
VERSION AF333706.1 GI:12642822
KEYWORDS MAGE family with tumor-specific expression
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 533)
AUTHORS Lucas, S., De Plaen, E. and Boon, T.
TITLE MAGE-B5, MAGE-B6, and MAGE-C3: four new members of the
JOURNAL MAGE family with tumor-specific expression
MEDLINE Int. J. Cancer 87 (1), 55-60 (2000)
PUBMED 20321428
REFERENCE 2 (bases 1 to 533)
AUTHORS Lucas, S., De Plaen, E. and Boon, T.
TITLE Direct Submission
JOURNAL Submitted (05-JAN-2001) Ludwig Institute for Cancer Research,
Catholic University of Louvain, Avenue Hippocrate, 74, Brussels
1200, Belgium
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Db      1224 TTCTGTGGGGTCCAAAGAGCCCATTCAGAAAGCATCAAGAAGTACTAGAGTTTITA 1283

QY      1016 TCCAAGCTATCCAGTATCATCCCTAG 1041
Db      1284 GCCAAGCTGAACACACTGTTCCTAG 1309

RESULT 9
LOCUS   BD106883              1983 bp    DNA        linear    PAT 18-SEP-2002
DEFINITION Isolated nucleic acid molecule coding for tumor rejection antigen
precursors MAGE-C1 and MAGE-C2 and uses thereof.
ACCESSION BD106883
VERSION   JP 2002503096-A/16.
KEYWORDS  synthetic construct
SOURCE    synthetic construct
ORGANISM  artificial sequences.
REFERENCE 1 (bases 1 to 1983)
AUTHORS   Lucas,S., Smet,C.D. and Falleur,T.B.
TITLE     Isolated nucleic acid molecule coding for tumor rejection antigen
          precursors MAGE-C1 and MAGE-C2 and uses thereof
JOURNAL   Patent: JP 2002503096-A 16 29-JAN-2002;
          LUDWIG INSTITUTE FOR CANCER RESEARCH
COMMENT   PN JP 2002503096-A/16
          PD 29-JAN-2002
          PF 24-APR-1998 JP 1998547266
          PR 25-APR-1997 US 08/845528
          PI SOPHIE LUCAS, CHARLES DE SMET, THIERRY BOON FALLEUR PC
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          C07K17/00,
          PC C07K16/00, C07K17/00
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          CC Topology: Linear;
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Db      1164 GTCCAGGACATTAACCTGGAGTATCGGAGGTGCCCAACAGTGTCTCTCCATATTATGAA 1223

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Db      1224 TTCTGTGGGTCCAAAGAGCCCATTCAGAAAGCATCAAGAAGTACTAGAGTTTITA 1283

QY      1016 TCCAAGCTATCCAGTATCATCCCTAG 1041
Db      1284 GCCAAGCTGAACACACTGTTCCTAG 1309

RESULT 10
LOCUS   AF151378              1983 bp    mRNA        linear    PRI 17-JUL-2002
DEFINITION Homo sapiens hepatocellular cancer antigen 587 (HCA587) mRNA,
complete cds.
ACCESSION AF151378
VERSION   AF151378.1 GI:7108900
KEYWORDS  Homo sapiens (human)
ORGANISM  Homo sapiens
REFERENCE 1 (bases 1 to 1983)
AUTHORS   Wang,Y., Han,K.J., Pang,X.W., Vaughan,H.A., Qu,W., Dong,X.Y.,
          Peng,J.R., Zhao,H.T., Rui,J.A., Leng,X.S., Cebon,J., Burgess,A.W.
          and Chen,W.F.
TITLE     Large scale identification of human hepatocellular
          carcino-associated antigens by autoantibodies
JOURNAL   J. Immunol. 169 (2), 1102-1109 (2002)
MEDLINE   22092308

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PUBMED 12097419
 REFERENCE 2 (bases 1 to 1983)
 AUTHORS Qu, W., Wang, Y., Han, K.J. and Chen, W.F.
 TITLE A new MAGE family gene identified in liver cancer
 JOURNAL Unpublished
 REFERENCE 3 (bases 1 to 1983)
 AUTHORS Qu, W., Wang, Y., Han, K.J. and Chen, W.F.
 TITLE Direct Submission
 JOURNAL Submitted (13-MAY-1999) Immunology, Beijing Medical University, #38
 Xueyuan Road, Beijing 100083, P. R. China
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 QY 1016 TCCAGCTATCCAGTATCATCCCTAG 1041
 DB 1284 GCCAAGCTGAACACACTGTTCCCTAG 1309
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 DEFINITION AF196482
 ACCESSION AF196482
 VERSION AF196482.1 GI:6319213
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1983)
 AUTHORS Lucas, S., De Plaen, E. and Boon, T.
 TITLE MAGE-B5, MAGE-B6, MAGE-C2 AND MAGE-C3: Four new members of the mage
 family with tumor-specific expression
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 1983)
 AUTHORS Lucas, S., De Plaen, E. and Boon, T.
 TITLE Direct Submission
 JOURNAL Submitted (20-OCT-1999) Ludwig Institute for Cancer Research,
 Universite Catholique de Louvain, avenue Hippocrate, 74, Brussels
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1016 TCCAGCTATCCAGTATCATCTCCCTAG 1041
1284 GCCAAGCTGAACAACACTGTCTCTAG 1309

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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 2887)
AUTHORS Lucas,S., De Plaen,E. and Boon,T.
TITLE MAGE-B5, MAGE-B6, MAGE-C2 AND MAGE-C3: Four new members of the mage
family with tumor-specific expression
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 2887)
AUTHORS Lucas,S., De Plaen,E. and Boon,T.
TITLE Direct Submission
JOURNAL Submitted (20-OCT-1999) Ludwig Institute for Cancer Research,
Universite Catholique de Louvain, avenue Hippocrate, 74, Brussels
1200, Belgium
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QY 181 TCACCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
DB 1453 -----CCACATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1496
QY 241 ATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 300
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DB 1890 CCGT---ACCACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1942
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Db 2241 GCCAAGCTGAACACACTGTTCCTAG 2266

RESULT 15
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LOCUS BD106884 2940 bp DNA linear PAT 18-SEP-2002
DEFINITION Isolated nucleic acid molecule coding for tumor rejection antigen
precursors MAGE-C1 and MAGE-C2 and uses thereof.
ACCESSION BD106884
VERSION BD106884.1 GI:23201702
KEYWORDS JP 2002503096-A/17.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 2940)
AUTHORS Lucas, S., Smet, C.D. and Falleur, T.B.
TITLE Isolated nucleic acid molecule coding for tumor rejection antigen
precursors MAGE-C1 and MAGE-C2 and uses thereof
JOURNAL Patent: JP 2002503096-A 17 29-JAN-2002;
LUDWIG INSTITUTE FOR CANCER RESEARCH
COMMENT PN JP 2002503096-A/17
PD 29-JAN-2002
PF 24-APR-1998 JP 1998547266
PR 25-APR-1997 US 08/845328
PI SOPHIE LUCAS, CHARLES DE SMET, THIERRY BOON FALLEUR PC
C07H21/04, A61K38/00, A61K39/00, A61K39/12, G01N33/574, C07K5/00, PC
C07K7/00,
PC C07K16/00, C07K17/00
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CC Topology: Linear;
FH Key Location/Qualifiers.
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source location/Qualifiers
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Query Match 46.7%; Score 486.4; DB 6; Length 2940;
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Matches 764; Conservative 0; Mismatches 211; Indels 71; Gaps 8;

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Qy 121 TCCACTTCTCTCTCTTTCCACTTTTATTCCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
Db 1407 TCC---GCTCTTCCACTTTGACTTAGTATTTCCTCTCTCTCTCTCTCTCTCTCTCTCT 1452

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Qy 361 TGCTCATCCCTCTTTGTGGACCCGATTCGATGAGGAGTCCAGCAG---TGAAGAGGAG 417
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Qy 418 GATACAGCTACTTGGCAATGCTTCCAGAAAGTGAATCCTTGGCCAGGATATGCCCTGGAT 477
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Qy 478 GAAAAGGTGGCTGAGTTGGTGCAGTTTCTCTCTCAAAATATCAAAAGAGAGCCCTGTC 537
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Qy 658 CCCGACCAACCACTCTCTATTTCTTTGAAGACACATTAGACCTTCACCTATGAGGAGCCCTG 717
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Qy 778 ATAAAGGGCAGCTGTGTCCCGAGAGGTCACTCGGAGAGTTGAGTGCATATAGGGGTG 837
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Qy 958 TTTTGTGGGTCCCAAGAGCCCATTCAGAGCCAGCAAGA--GAAGCTTTAGAGTTTTTA 1015
Db 2181 TTCTGTGGGTCCCAAGAGCCCATTCAGAAAGCATCAAGAAAGTACTAGAGTTTTTA 2240

Qy 1016 TCCAAGCTATCCAGTATCATCCCTAG 1041
Db 2241 GCCAAGCTGAACACACTGTTCCTAG 2266
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Search completed: February 19, 2004, 19:14:08
Job time : 4193 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 18:01:37 ; Search time 2697 Seconds
(without alignments)
9381.149 Million cell updates/sec

Title: US-10-085-108-21

Perfect score: 1041

Sequence: 1 ATGCCTCTCTTCCAACT.....CTATCCAGTATCATCCCTAG 1041

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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2: em_esthum:*

3: em_estin:*

4: em_estmu:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

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9: gb_esti:*

10: gb_est2:*

11: gb_est3:*

12: gb_est4:*

13: gb_est5:*

14: gb_est5:*

15: em_estfun:*

16: em_estom:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_pln:*

20: em_gss_vrt:*

21: em_gss_fun:*

22: em_gss_mam:*

23: em_gss_mus:*

24: em_gss_pro:*

25: em_gss_rod:*

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27: em_gss_vrl:*

28: gb_gss1:*

29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	374.2	35.9	671	12	BM792325 K-EST0072
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4	339.8	32.6	1201	13	BX335541 BX335541

C	5	328.6	31.6	641	29	BZ608680
	6	317.8	30.5	806	10	BE729944
	7	315.4	30.3	1062	12	BM547686
	8	306.2	29.4	861	13	BUI88257
	9	304.2	29.2	877	13	BQ434005
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ALIGNMENTS

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DEFINITION AG050338
ACCESSION AG050338
VERSION AG050338.1 GI:16587230
KEYWORDS GSS.
SOURCE Pan troglodytes (chimpanzee)
ORGANISM Pan troglodytes
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
REFERENCE 1
AUTHORS Fujiyama, A., Hattori, M., Toyoda, A., Taylor, T. D., Yada, T., Totoki, Y., Watanabe, H. and Sakaki, Y.
TITLE BAC end sequences of Library PTB
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 665)
AUTHORS Fujiyama, A., Hattori, M., Toyoda, A., Taylor, T. D., Yada, T., Totoki, Y., Watanabe, H. and Sakaki, Y.
TITLE Direct Submission
JOURNAL Submitted (02-AUG-2001) Asao Fujiyama, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC); 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: chimpesegsc.riken.go.jp, URL: http://hgp.gsc.riken.go.jp/, Tel: 81-45-503-9111, Fax: 81-45-503-9170)
COMMENT Clones are derived from the chimpanzee BAC library PTB. This BAC end was generated during the R&D process and may have higher chance of

clone tracking errors.

PRIMERS

Sequencing: M13Rev

LIBRARY

Vector : pKS145

R.Site 1 : SacI

R.Site 2 : SacI

Location/Qualifiers

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Best Local Similarity 82.0%; Pred. No. 2,7e-85;
Matches 473; Conservative 0; Mismatches 101; Indels 3; Gaps 1;

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RESULT 2

BM792325

LOCUS

BM792325 K-EST0072524 S22SNUI6n1 Homo sapiens cdna clone S22SNUI6n1-13-C12

5', mRNA sequence.

ACCESSION

BM792325

VERSION

BM792325.1 GI:19140557

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,

Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and

Kim,Y.S.

21C Frontier Korean EST Project 2001

Unpublished

Contact: Kim YS

Genome Research Center

Korea Research Institute of Bioscience & Biotechnology

52 Eoem-dong Yuseong-gu, Daejeon 305-333, South Korea

Tel: +82-42-860-4470

Fax: +82-42-860-4409

Email: yongsung@mail.kribb.re.kr

Plate: 13 row: C column: 12

High quality sequence stop: 671.

FEATURES

source

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Bonaldo, M.F., Lennon, G. and Soares, M.B. (1996). Genome
Research 6(9): 791-806. RNA was prepared from harvested
cells of SNU-16 culture. SNU-16 cell was obtained from
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(1990). Cancer Res 50: 2773-2780."
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Best Local Similarity 82.3%; Score 374.2; DB 12; Length 671;

Matches 455; Conservative 0; Mismatches 93; Indels 5; Gaps 2;

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Db 301 TATGCTCTGAGGAGGTCATCTGGGATGTCTGAGTGAATAGGGGTGCTGCTGGGAGG 360
QY 850 GAGCAGCTTTATATATGCGGATCCACAAAGCTCTCAGTATATCATTTGGGTGACAGAAAG 909
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 QY 970 CCAAGAGCCATTACAGAGCCAGCAGAG--AAGTCTTAGAGTTTATCCAGCTATCC 1027
 Db |||||
 481 CCAAGAGCTCATTCAGAGTCAATTAAGAGAAAGTAGTAGTTTTTGGCCCATGCTAAAG 540
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 clone CS0DI016YG21 3-PRIME, mRNA sequence.
 ACCESSION BX335540
 VERSION BX335540.1 GI:30335452
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 1200)
 Li.W.B., Gruber,C., Jessee,J. and Polayes,D.
 Full-length cDNA libraries and normalization
 Unpublished
 Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 EVRY cedex - France
 Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
 Library was constructed by Life Technologies, a division of
 Invitrogen. This sequence belongs to sequence cluster 10428.r For
 more information about this cluster, see
 http://www.genoscope.cns.fr/
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 Feng Liang Email : fliang@lifetech.com URL :
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Query Match 32.7%; Score 340.8; DB 13; Length 1200;
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 Db |||||
 713 TGACTGATTTGGTGCAGTTTCTGCTCTTCAAGTATCAATGAGGAGCCGATCAACAGG 654

QY 545 CAGAGATCTGACGACTGTCTCATCAAGAAAGTATAAGGACTATTTTCCCATGATCTTCGGGA 604
 Db |||||
 653 CAGAAATACTGGAGAGTGTCTATAAAAAAATTAAGAAGACCACCTCTCCCTTTGTTAGTG 594
 QY 605 AAGCCCATGAGTTATAGAGCTAATTTTGGCATTTGCCCTGACTATATGGACCCGACA 564
 Db |||||
 593 AAGCCTCCGAGTGCATGCTGCTGTTTGGCATTTGATGTAAAGGAAGTGGATCCCACTG 534
 QY 665 ACCACTCTCTATTCTTTGAAGACACATTAGACTCCTCACCTATGAGGAGCCCTGATTGATG 724
 Db |||||
 533 GCCACTCTCTTTGCTCTGTCCCTCCCTGGGCTCACCTATGATGGGATGCTGATGATG 474
 QY 725 ACCAGGCGATGCCCAAGAACTGTCTCCTGATTTCTTATCTCAGTAGATCTTCATAAAGG 784
 Db |||||
 473 TCCAGAGCATGCCCAAGACTGGCACTTCTCATCTTATCTTAAGCATATCTTCTATAGAGG 414
 QY 785 GCAGCTGTGTCCTCCGAGAGGTCTCTCGGAGTGTTCAGTGCATAGGGGTGTGCTG 844
 Db |||||
 413 GCTACTGCACCTCTGAGGAGTCTCTGGGAGCTCATCTGGGAGCTGAATATGATGGGCTGTATGATG 354
 QY 845 GGAGGAGCACTTTATATATATGGGATCCAGAAAGCTGCTCACTATACATTTGGGTGCAGA 904
 Db |||||
 353 GGATGGACACCTCATTTATGGGAGCCAGGAAGCTGCTCACCAAGATTGGGTGCAGG 294
 QY 905 GAAAGTACTGAGTACCGGAGGTGCCAAGAGTGTCTCCACGTTATGATGATTTTGT 964
 Db |||||
 293 AAAACTACCTGGAGTACCGGAGGTGCTGTCAGTGTCTGACGATGATGATGATGATGATGATG 234
 QY 965 GGGTCCCAAGAGCCATTTCAGAGCCAGACAGAGAGTCT 1004
 Db |||||
 233 GGGGTCCAAGGCTCATGCTGAATTAGAAGATGAGTCT 194

RESULT 4
 LOCUS BX335541
 DEFINITION BX335541 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
 clone CS0DI016YG21 5-PRIME, mRNA sequence.
 ACCESSION BX335541
 VERSION BX335541.1 GI:30337426
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 1201)
 Li.W.B., Gruber,C., Jessee,J. and Polayes,D.
 Full-length cDNA libraries and normalization
 Unpublished
 Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 EVRY cedex - France
 Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
 Library was constructed by Life Technologies, a division of
 Invitrogen. This sequence belongs to sequence cluster 10428.r For
 more information about this cluster, see
 http://www.genoscope.cns.fr/
 cgi-bin/cluster.cgi?seq=CS0DI016AD11NP1&cluster=10428.r. Contact :
 Feng Liang Email : fliang@lifetech.com URL :
 http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
 Faraday Avenue Genoscope sequence ID : CS0DI016AD11NP1.
 Location/Qualifiers
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 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="CS0DI016YG21"
 /tissue_type="PLACENTA COT 25-NORMALIZED"
 /clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
 /note="1st strand cDNA was primed with a NotI-oligo(dT)
 primer. Five prime end enriched, double-strand cDNA was
 digested with Not I and cloned into the Not I and EcoR V
 sites of the pCMVSPORT 6 vector. Library was normalized."
 BASE COUNT 262 a 298 c 281 g 285 t 74 others
 ORIGIN

Query Match 32.7%; Score 340.8; DB 13; Length 1200;
 Best Local Similarity 71.9%; Pred. No. 4e-71;
 Matches 460; Conservative 0; Mismatches 177; Indels 3; Gaps 1;

QY 368 CCCCTCTTTGGACCCGATTTGGATGGATGAGTCCAGAGTCAAGAGGAGGA---TACAG 424
 Db |||||
 833 CTCCTCCCTTCCATTAGATCAATCTGATGGGCTCCAGAGCCCAAGAGGAGAGTCCAA 774
 QY 425 CTACTTGGCATGCTTGGCCAGAAAGTGAATCTTGCCAGAGTATCCCTGGGATGAAGG 484
 Db |||||
 773 GCACCTACAGTCTCCGACAGACAGTGTCTTATCCAGAGTGAATGATGAAGG 714
 QY 485 TGGCTGAGTTGGTGCAGTTTCTTCTCCTCAAAATACAAACAAAGAGCCTGTCAAAAGG 544
 Db |||||
 713 TGACTGATTTGGTGCAGTTTCTGCTCTTCAAGTATCAATGAGGAGCCGATCAACAGG 654

BASE COUNT 321 a 256 c 289 g 282 t 53 others

ORIGIN

Query Match 32.6%; Score 339.8; DB 13; Length 1201;
 Best Local Similarity 72.7%; Pred. No. 6.9e-71;
 Matches 453; Conservative 0; Mismatches 167; Indels 3; Gaps 1;

QY 385 CGATTGGATGAGAGTCCACGAGTGAAGAGGAGGA---TACAGTACTTGGCATGCGCTTG 441
 DB 152 CAATCTGATGAGGCTCCAGCAGCCAAAGAGGAGAGTCCAGACCTACAGTCTCTG 211
 QY 442 CAGAAAGTGAATCCTTGCCCGAGGTATGCCCTGGATGAAAAGGTGGCTGAGTGTGGCAG 501
 DB 212 CCAGACAGTGAATCTTACCCAGAGTGAATGAAAGGTGACTGATTTGGTGGCAG 271
 QY 502 TTCTCTCTCTCAATATCAAAACAAAGAGCTGTCCACAAAGGCGAGATGCTGACGACT 561
 DB 272 TTCTCTCTCTCAATATCAAAACAAAGAGCTGTCCACAAAGGCGAGATGCTGACGACT 331
 QY 562 GTCATCAAGAAGTATAAGGACTATTTTCCCATGATCTTCCGGAAGCCCATGAGTTTCATA 621
 DB 332 GTCAATAAAATATCAAGACCACTTCCCTTTGTTTGTAGTGAAGCTCCAGTGCATG 391
 QY 622 GAGCTAAATTTTGGATGCTGCTGCTGATGATGAGACCCCGACAACCACTCTCTATTTCTTT 681
 DB 392 CTGCTGGTCTTTGGCATTTGATGTAAGGAAGTGGATCCCACTGGCCACTCTCTTTCTCTT 451
 QY 682 GAAGACACATTAGACTCACTATGAGGAAGCCTGATTTGATGACAGGCGATGCCCAAG 741
 DB 452 GTCACTCTCTGGCTCACTATGATGAGGATGCTGAGTGTCCAGAGATGCCCAAG 511
 QY 742 AACTGTCTCTGATTTATTTCTCAGTATGATCTTCAATAAGGCGAGCTGTCTCCCGAG 801
 DB 512 ACTGGCATTTCTCATATTTATCTTCAAGCATATCTTCAAGAGGGCTACTGCACCCCTGAG 571
 QY 802 GAGTCACTCGGAAGTGTGAGTGCATAGGGGTGTGCTGCGAGGAGGACACTTTATA 861
 DB 572 GAGGTCACTCGGAAGCACTGAATATGATGGGGCTGTATGATGGATGGAGCACCTCAT 631
 QY 862 TATGGGATCCAGAAAGCTGCTCACTATACATATGGTGCAGAAAGTACCTGGAGTAC 921
 DB 632 TATGGGAGCCAGAGCTGCTCAACCAAGATGGTGCAGAAAGTACCTGGAGTAC 691
 QY 922 CGGAGGTGCCCAACAGTCTCTCTCCACGTTATGAAATTTTGTGGGTCCAAAGCCCAT 981
 DB 692 CGCAGGTGCTGGCAGTATCTGCAAGGTATGATTTCTGTGGGTCCAAAGGCTCAT 751
 QY 982 TCAGAGGCCAGCAAGAGATCT 1004
 DB 752 GCTGAAATPAGGAAGATGAGTCT 774

RESULT 5
 BZ608680/c

LOCUS WHAE137F Human MCF7 breast cancer cell line library (MCF7_1) Homo sapiens genomic clone MCF7_1-2C1, genomic survey sequence.

DEFINITION BZ608680

ACCESSION BZ608680

VERSION BZ608680.1 GI:31517241

KEYWORDS GSS.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Fukuyota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 641)

AUTHORS Volik S., Zhao S., Chin K., Brebner J.H., Herndon D.R., Tao Q., Kowbel D., Huang G., Lapuk A., Kuo W.-L., Megrane G., de Jong P., Gray J.W. and Collins C.

TITLE ESP: a sequence-based approach to the structural genomics of tumors

JOURNAL Unpublished (2002)

COMMENT Contact: Volik SV
 Colin Collins' lab
 UCSF Comprehensive Cancer Center

UCSF Box 0808, San Francisco, CA 94143-0808, USA
 Tel: 415 502 7066
 Fax: 415 502 5685
 Email: svolik@cc.ucsf.edu
 This clone is available from Amplicon Express
 http://www.genomex.com
 Class: BAC ends.

FEATURES

source

1..641

Location/Qualifiers

1..641

/organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

/clone="MCF7_1-2C1"

/sex="female"

/clone_lib="Human MCF7 breast cancer cell line library (MCF7_1)"

/note="Vector: pBCBAC1; Site 1: HindIII; This library was constructed from MCF7 breast cancer cell line by Amplicon Express (http://www.genomex.com) using their standard procedure."

BASE COUNT 161 a 166 c 149 g 165 t

ORIGIN

Query Match 31.6%; Score 328.6; DB 29; Length 641;
 Best Local Similarity 81.4%; Pred. No. 2.8e-68;
 Matches 445; Conservative 0; Mismatches 89; Indels 13; Gaps 5;

QY 496 GTGAGTTTCTCTCCTCAAAATATCAAAAGAGGCTGTCCACAAAGGCGAGATGCTG 555
 DB 641 GTGGATTTCTCTCCTCAAAATATCAAAAGAGGCTGTCCACAAAGGCGAGATGCTG 582
 QY 556 ACGACTGTCAACAAGATATAAGGACTATTTTCCCATGATCTTCCGGAAGCCCATGAG 615
 DB 581 ACGATTGTCAACAAGATATAAGGACTATTTTCCCATGATCTTCCGGAAGCCCATGAG 523
 QY 616 TTCTATAGAGTAAATTTTGGCATTTGCCCTGACTGATATGACCCCGACAACCATCTCTAT 675
 DB 522 TTCTATAGAGTAAATTTTGGCATTTGCCCTGACTGATATGACCCCGACAACCATCTCTAT 467
 QY 676 TTCTTTGAAGACATATAGAGCTCACTATGAGGAGGAGCTGATTTGATGACCAAGGCGATG 735
 DB 466 GTGTTTGAAGACATATAGAGCTCACTATGAGGAGGAGCTGATTTGATGACCAAGGCGATG 413
 QY 736 CCCAAGAACTGTCTCTCATTTCTTATTTCTCAGTATGATCTTCAATAAGGCGAGCTGTGTC 795
 DB 412 CTTGAGAACTGCTCTCTCATTTCTTATTTCTGAGTGTGATCTTCAATAAGGCGAGCTGTGCC 353
 QY 796 CCGAGGAGGTCACTCTGGGAAGTGTGAGTGCATATAGGGGTGTGTGCGGAGGAGGAC 855
 DB 352 CCGAGGAGGTCACTCTGGGAAGTGTGAGTGCATATAGGGGTGTGTGCGGAGGAGGAC 293
 QY 856 TTTATATATGGGATCCAGAAAGCTGCTCACTATACATTTGGGTGCAGAAAGTACCTG 915
 DB 292 TTGCTCTATGGGAGCCAGGAGCTCTCTCAATAAGTTTGGGTGCAGAAAGTACCTG 233
 QY 916 GAGTACCGGAGGTGCCCAACAGTCTCTCCACGTATGATTAATTTTGTGGGTCCAAGA 975
 DB 232 GAGTATTCGGAGGTGCCCAACAGTCTCTCCACGTATGATTAATTTTGTGGGTCCAAGA 173
 QY 976 GCCCATTCAGAGGCCAGCAAG--AGAAGTCTTAGAGTTTTTATCCAAAGCTATCCAGTATC 1033
 DB 172 GCCCATTCAGAAAGCACCAGAGAAAGTACTAGAGTTTTTGTGGCCAGCTATACAAATAGT 113
 QY 1034 ATCCCTTA 1040
 DB 112 ATCCCTTA 106

RESULT 6
 BE729944

LOCUS BE729944

DEFINITION 601562418F1 NIH_MGC_20 Homo sapiens CDNA clone IMAGE:3831893 5', mRNA sequence.

806 bp mRNA linear EST 15-SEP-2000

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ACCESSION      BE729944
VERSION        BE729944.1
KEYWORDS       EST.
SOURCE         Homo sapiens (human)
ORGANISM       Homo sapiens
REFERENCE      1 (bases 1 to 806)
AUTHORS       NIH-MGC http://mgc.nci.nih.gov/.
TITLE         National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL       Unpublished
COMMENT       Contact: Robert Strausberg, Ph.D.
              Email: csapbs-remail.nih.gov
              Tissue Procurement: ATCC/DCTD/DTF
              cDNA Library Preparation: Ling Hong/Rubin Laboratory
              cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
              DNA Sequencing by: Incyte Genomics, Inc.
              Clone distribution: MGC clone distribution information can be
              found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
              Plate: LLCMS08 row: d column: 06
              High quality sequence stop: 707.
              Location/Qualifiers
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                /organism="Homo sapiens"
                /mol_type="mRNA"
                /db_xref="taxon:9606"
                /clones="IMAGE:3831893"
                /tissue_type="melanotic melanoma"
                /lab_host="DH10B (phage-resistant)"
                /clone_lib="NIH MGC_20"
                /note="Organ: skin; Vector: pOTB7; Site: 1: XhoI; Site 2:
                EcoRI; cDNA made by oligo-dT priming. Directionally
                cloned into EcoRI/XhoI sites using the following 5'
                adaptor: GGCACGAG(G). Size-selected >500bp for average
                insert size 1.8kb. Library constructed by Ling Hong in
                the laboratory of Gerald M. Rubin (University of
                California, Berkeley) using ZAP-cDNA synthesis kit
                (Stratagene) and superscript II RT (Life Technologies)."
BASE COUNT     186 a 203 c 217 g 199 t
ORIGIN
Query Match    30.5%; Score 317.8; DB 10; Length 806;
Best Local Similarity 69.2%; Pred. No. 1.2e-65;
Matches 580; Conservative 0; Mismatches 188; Indels 70; Gaps 8;

QY 18 CTTCCACGGCTCAGCTTTGAGGAGACTTCCAGAACCCGAGTGTGACAGAGACTTGGT 77
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 2 CGTTCATTCGGCAACGTTGACACGACTCCCGACCTCAGTTAGTAGAGACTGGT 61
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 78 AGATGCACAGATTCATAGATGAGGAGGAGGATGCCTCCCTCCACTTCCTTCCTC 137
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 62 AGATGCACAGATCCACAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 118
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 138 TTTCACCTTTTATCCCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTC 197
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 119 TTGTACTTAGTATTTTCCCTCTTTCTTTCTT-----C 151
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 198 CTTACCCCTCTACTCTCATTTCTGGTGTTCAGAGAGATGAGATGCTGCTGGGAT 257
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 152 CACATCTCTTCTCTGATTTCTGTGTCTGTGAGGAGGAGGAGGAGGAGGAGGAGGAT 211
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 258 GCCACCTCTTCCCGAGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCC 317
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 212 ACCAAATCTTACCAGA-----GCATTCACAGTAGTCTCTCC 247
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 318 CCAGGCTCTCCGAGAGTCTCCCGAGTCTCTCCAGTCTCTAGACTCTCTCTCTCTTT 377
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 248 ACAGGGTCTCCAGAGGTCCTTCCAGAGTCTCTCCAGTCTCTCTCTCTCTCTCTTT 307
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 378 GTGACCCGATTTGATGAGGAGTCCAGAG---TGAAGAGGAGGATACAGTACTCGCA 434
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 308 ATGGAGCTCATTCAGTGAGGAGTCCAGAGCCAGCCAGAAAGGGAGGATACAGCCTCTCA 367
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

435 TGCCTTGCCAGAAAGTGAATCCTTGCCAGGTATGCCCTGGATGAAAGGTGGCTGAGTT 494
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
368 GGGCTGCCCAGACAGTGAGTCTCTTTTCAATATACATACATAGATGAAAGGTGGCCGAGTT 427
QY 495 GTGTCAGTTTCTCTCTCAATATCAACAAAGAGCCCTGTCAACAAAGGAGGATGCT 554
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
428 AGTGGAGTTCTCTCTCAATACGAAGCAGAGAGCCCTGTAAACAGAGGAGGATGCT 487
QY 555 GAGCAGCTGTATCAAGAAAGTATAGGAGTATTTTCCCATGATCTTCGGGAAAGCCCATGA 614
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
488 GATGATGTGTCATC---AAGTACAAAGATTACTTTCTGTGATCTCAAGAGAGCCCTGA 544
QY 615 GTTCATAGAGCTAATTTTGGCATTTGCCCTGACTGATATGAGACCCGACACCACTCTA 674
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
545 GTTCATGAGCTTCTTTTGGCCTTGCCCTGATAGAGTGGGCCCTG---ACCACTTCTG 601
QY 675 TTCTTTGAGACACATTAGACCTCACCCTATGAGGAGGAGCCCTGATTCATCAGGAGCAT 734
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
602 TGTGTTTGCAACACAGTAGAGGCTCACCAGTAGGG---GTAGTGTATGATGAGGAGCAT 656
QY 735 GCCCAGAGACTGTCTCTCTGATTTCTTCTCAGTATGATCTTCATAAAGGAGCAGCTGTGT 794
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
657 GCCCGAGACAGGCTCTGATTTATTTCTGAGTGTGATCTTCATAAAGGAGGCACTGTG 716
QY 795 CC--CCGAGGAGTCTATCTGGGAAGTGTGAGTGCATATAGGGGTGTGCTGGGAGGG 850
Db 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
717 CTTCTGAAGAGGTCTATCTGGGAAGTGTGATGATGCCGAGGAGGATATCGGGAGGGAGG 774

RESULT 7
BM547686
LOCUS      AGENCOURT 6507236 NIH_MGC_124 Homo sapiens cDNA clone IMAGE:5727806
DEFINITION 5', mRNA sequence.
ACCESSION  BM547686
VERSION     BM547686.1
KEYWORDS    GI:18781667
SOURCE      Homo sapiens
ORGANISM    Homo sapiens (human)
REFERENCE   1 (bases 1 to 1062)
AUTHORS     NIH-MGC http://mgc.nci.nih.gov/.
TITLE       National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL     Unpublished
COMMENT     Contact: Robert Strausberg, Ph.D.
              Email: csapbs-remail.nih.gov
              Tissue Procurement: Invitrogen
              cDNA Library Preparation: Life Technologies, Inc.
              cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
              DNA Sequencing by: Agencourt Bioscience Corporation
              Clone distribution: MGC clone distribution information can be
              found through the I.M.A.G.E. Consortium/LLNL at:
              http://image.llnl.gov
              Plate: LLCM12722 row: h column: 15
              High quality sequence stop: 631.
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                /clone_lib="NIH MGC_124"
                /note="Organ: brain; Vector: pCMV-SPORT6; Site: 1: EcoRV
                (destroyed); Site: 2: NotI; RNA source male hippocampus,
                age 27. Library is oligo-dT primed and directionally
                cloned (EcoRV site is destroyed upon cloning). Average
                insert size 1.4 kb, insert size range 0.9-4 kb. Library is
                normalized and enriched for full-length clones and was
                constructed by C. Gruber (Invitrogen). Research Genetics
                tracking code 012."

```



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RESULT 9
BO434005
LOCUS
DEFINITION
BO434005
ACCESSION
BO434005
VERSION
BO434005
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov
Tissue Procurement: ATCC/DCTD/DTF
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM13342 row: d column: 21
High quality sequence stop: 647.
Location/Qualifiers
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/db_xref="taxon:9606"
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/clone_lib="NIH MGC 72"
/notes="Organ: skin; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 2 kb. Library constructed by Life
Technologies."
BASE COUNT 203 a 233 c 254 g 185 t 2 others
ORIGIN
Query Match 29.2%; Score 304.2; DB 13; Length 877;
Best Local Similarity 70.6%; Pred. No. 2.3e-62;
Matches 433; Conservative 0; Mismatches 175; Indels 5; Gaps 2;
QY 375 TTGTGGACCCGATTGGATGAGAGTCCAGCAG---TGAAGAGGAGATACAGCTACTTG 431
Db 238 TCTGTGGAGCCAAATCCGATGAGGTTCCAGCAGCAATGAAGAGGAGGCGCCAGCACCTC 297
QY 432 GCATGCTTTGCCAGAAAGTCAATCTTGTCCAGGATGCCCTGGATGAAGAAGTGGCTGA 491
Db 298 CCGGACCCAGCTCACCTGGAGTCCCTGTTCGGGAAGCAGCTGTGAGAAAGTGGCTGA 357
QY 492 GTTGGTGCAGTTTCTTCTCTCTCAATATCAAAAGAGCCCTGTCAAAAGGCGAGAT 551
Db 358 GTTAGTTCGTTCTCTCTCGCAATATCAATATAGGAGCCGCTCAAAAGGCGAGAT 417
QY 552 GCTGAGACTGTCTATCAAGAGTATAGGACTATTTTCCCATGATCTTCGGGAAGCCCA 611
Db 418 GCTTGAGAGTGTCTATCAAAATATACAGAACCACTTTCTCTGATATCTTCAGCAAGCCCTC 477
QY 612 TGAGTTTCATAGACTAATTTTTCGATTCGCCCTGCTGATATGAGCCCGACACCACTC 671
Db 478 TGAGTGCATCAGGTGATCTTTGGCATTTGATGTAAGGAGTGGACCCCTGCGGCCACTC 537
QY 672 CTATTTCTTTGAAGACACATTAGACCTCACCTATGAGGGAAGCCTGATGATGACCAAGG 731
Db 538 CTACATCTTGTACCTGCTGGGCTCTCTCTATGATGGCTCTGGTGTATGATCAGAG 597

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```

QY 732 CATGCCCAAGAACTGTCTCTGATTTCTTATTTCTCAGTATGATCTTCATAAAGGCGAGCTG 791
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QY 792 TGTCCCGGAGGAGTCTCTGGAAAGTGTGAGTGAATAGGGGTGTGCTGCGGAGGGA 851
Db 658 CCGCCCGGAGGAGGCAATCTGGGAAAGCGTTGAGTGTGATGGGCTGTATGATGGGAGGGA 717
QY 852 GCACCTTTATATATGGGATCCAGAAAGCTGCTCACTATACATATGCTGGTGCAGAGAAAGTA 911
Db 718 GCACAGTGTCTATTTGAAGCTCAGGAAGCTGCTCACCAAGAGTGGTGCAGAGAACTA 777
QY 912 CTGTGAGTACCGGAGGTGCCCAACAGTCTCTCCACCTTATGAATTTT--TGTGGGT 969
Db 778 CTGTGAGTACCGGAGGCGCGGAGTCTCTGTGCGCTACCAANNTTCCGTTGGGT 837
QY 970 CCAAGAGCCCAATT 982
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 mRNA sequence.
 BE895761
 EST. BE895761.1 GI:10359482
 Homo sapiens (human)
 Homo sapiens
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 NIH-MGC http://mgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cgabbs@mail.nih.gov
 Tissue Procurement: ATCC/DCTD/DTF
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: LLAM9744 row: n column: 19
 High quality sequence stop: 619.
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 /mol_type="mRNA"
 /db_xref="taxon:9606"
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 /clone_lib="NIH MGC 72"
 /note="Organ: skin; Vector: pCMV-SPORT6; Site 1: NotI;
 Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
 Average insert size 2 kb. Library constructed by Life
 Technologies."

BASE COUNT 218 a 189 c 269 g 261 t
 ORIGIN
 Query Match 29.1%; Score 302.6; DB 10; Length 937;
 Best Local Similarity 81.2%; Pred. No. 5.7e-62;
 Matches 389; Conservative 0; Mismatches 84; Indels 6; Gaps 3;

QY 564 CATCAAGAGTATAAGGACTATTTTCCCATGATCTTCGGGAAAGCCCATGAGTTTCATAGA 623
 Db 1 CATCAGCAGTACAGGCTACTTTCTCTGATCTTCAGAAAGCCCGTGTGAGTTTCATAGA 60
 QY 624 GCTAATTTTGGCATTTGCCCTGACTGATATGAGACCCCGAACCACTCTCTTTCTTTGA 683


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Db      61  GATACCTTTTGGCAATTCCTCGAGAGAGTGGACCCCTG---ATGACTCTCTATGTCTTTGT 117
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QY      744  CTGTCTCTGATTTCTTATTTCTCAGTATGATCTTTCAATAAGGGGAGCTGTGTCCCGAGGA 803
Db      178  CGCGCTCTGATTTCTTATTTCTAGTATCATCTTTCAATAAGGGCACTATGCTCTGAGGA 237
QY      804  GGTCTATCTGGAAAGTGTGAGTGCATAGGGGTGTGCTGGAGGAGACATTTATATA 863
Db      238  GGTCTATCTGGAGTGTCTGAGTGGAAATAGGGGTGCTGCTGGAGGAGACATTTGCCTT 297
QY      864  TGGGGATCCAGAAAGCTGCTCACTATACATTTGGGTGACAGAAAGTACTGTGAGTACCG 923
Db      298  TGGGGAGCCAG--GAGCTCTCTACTAAAGTTGGGTGACAGAAACATTAAGTACGATACCG 356
QY      924  GAGAGTGCCCAACAGTGTCTCTCCACGTTATGAAATTTTGTGGGGTCCAAGAGCCCATTC 983
Db      357  GGAAGTGCCCAACTCTCTCTCTCTGTTACGAATTCCTGTGGGTCCAAGAGCTCATTC 416
QY      984  AGAGGCGACAGAG--AGTCTTACAGTTTATCCAGCTATCCAGTATCATCCCTA 1040
Db      417  AGAAGTCATTAAGAGGAAAGTAGTAGTGTTTTGGCCATGCTAAAGATACCGTCCCTA 475

RESULT 11
BG024106
LOCUS   602303163F1 NIH_MGC_88 1050 bp mRNA linear EST 24-JAN-2001
DEFINITION mRNA sequence.
ACCESSION BG024106
VERSION   BG024106.1 GI:12409339
KEYWORDS EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE     NIH-MGC http://mgi.nci.nih.gov/
JOURNAL   National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT   Contact: Robert Strausberg, Ph.D.
          Email: cgabbs-r@mail.nih.gov
          Tissue Procurement: ATCC
          cDNA Library Preparation: Life Technologies, Inc.
          DNA Sequencing by: Incyte Genomics, Inc.
          Clone distribution: MGC clone distribution information can be
          found through the I.M.A.G.E. Consortium/LLNL at:
          Plate: LLAM10090 row: n column: 16
          High quality sequence stop: 700.
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      /clone_lib="NIH_MGC_88"
      /note="Organ: small intestine; Vector: pCMV-SPORT6;
      Site 1: NotI; Site 2: SalI; Cloned unidirectionally;
      oligo-dT primed. Average insert size 1.767 kb. Library
      enriched for full-length clones and constructed by Life
      Technologies. Note: this is a NIH_MGC Library."
BASE COUNT 276 a 246 c 332 g 196 t
ORIGIN
Query Match 26.2%; Score 272.8; DB 10; Length 1050;

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Best Local Similarity 69.1%; Pred. No. 8.7e-55;
Matches 387; Conservative 0; Mismatches 172; Indels 1; Gaps 1;
QY      437  CTTTCCCGAAGAGTGAATCCTTCCGACGATGATCCCTGGATGAAAGGTGGCTGAGTGG 496
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QY      557  CGACTGTCTATCAAGAGTATTAAGGACTATTTTCCCATGATCTTTCCGAAAGCCCATGAGT 616
Db      158  AGAGAGTCTATCAAAATATCAAGAGCTGTCTTCTCTGTGATCTTCCGCAAGGCTCCGAGT 217
QY      617  TCATAGAGCTAATTTTGGCAATTTGGCAATTTGGCAATTTGGCAATTTGGCAATTTGGCA 676
Db      218  CCTCAAGATGATCTTTGGCAATTTGGCAATTTGGCAATTTGGCAATTTGGCAATTTGGCA 277
QY      677  TCTTTAAAGACACATTTAGACCTCACCTATGAGGAGAGCTGATGATGATGATGATGATGATG 736
Db      278  CCTTGTCTACCTCGCTGGGCTTTCTTATGATGGCTGCTGGTAAATATGATGATGATGATG 337
QY      737  CCAAGAGCTGTCTCTGATTTTATCTCAGTATGATCTTCAATAGGAGGAGGAGGAGGAGT 796
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QY      797  CCGAGAGGCTCATCTGGGAAGTGTGAGTGCAATAGGGGTGTGTCTGGGAGGAGGAGT 856
Db      398  CTGAGAGGAGAACTCTGGGAGGAGCTGGGTGTGATGATGGGAGGAGGAGGAGGAGGAG 457
QY      857  TTATATATGGGATCCAGAAAGCTGCTCATATATCATTTGGGTGACAGAGAAAGTACCTGG 916
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QY      917  AGTACCGGAGGAGTGGCCACACT--GCTCTCCACGTTATGAAATTTTGTGGGCTCCCAAGA 975
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Db      578  GCTCTGCTGAAACACAGCTA 597

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ACCESSION BI090658
VERSION   BI090658.1 GI:14508988
KEYWORDS EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS   Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE     NIH-MGC http://mgi.nci.nih.gov/
JOURNAL   National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT   Contact: Robert Strausberg, Ph.D.
          Email: cgabbs-r@mail.nih.gov
          Tissue Procurement: ATCC
          cDNA Library Preparation: Life Technologies, Inc.
          DNA Sequencing by: Incyte Genomics, Inc.
          Clone distribution: MGC clone distribution information can be
          found through the I.M.A.G.E. Consortium/LLNL at:
          http://image.llnl.gov
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          High quality sequence stop: 703.
FEATURES
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    1..704

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Db |||||
QY 432 GCATGCCCTTGGCAGAAAGTGAATCCTTGGCCAGGTATGCCCTGGATGAAAAGGTGGCTGA 491
Db |||||
QY 197 CCGGAGCCCAAGCTCACCTGGAGTCCCTGTTCCGGGAAGCACTTGTATGAGAAAGTGGCTGA 256
Db |||||
QY 492 GTTGGTGCAGTTTCTTCTCCTCAAAATCAAAACAAAGAGCCCTGTCAAAAGGCAGAGAT 551
Db |||||
QY 257 GTTAGTTCGTTTCTCTGCTCCGCAATATCAAAATTAAGAGCCCGTCAAAAGGCAGAAAT 316
Db |||||
QY 552 GTCGACCACTGTCAATCAAGAAAGTAAAGGACTATTTTCCCATGATCTTCGGGAAAGCCCA 611
Db |||||
QY 317 GCITGAGAGTGTCAATCAAAATTAAGAAACCACTTTCCTGATATCTTCAGCAAAGCCTC 376
Db |||||
QY 612 TGAGTTCATAGAGCTAATTTTGGCANTGCCCTG- ACTGATATGGACCCCGACAACCACT 670
Db |||||
QY 377 TGAGTGCATGCAGGTGATCTTTGGCATTTGATGTAACGGAGTGGACCTGCGGCCACT 436
Db |||||
QY 671 CCTATTTCTTTGAAGACACATTAAGACCTCACCTATGAGGGAAGCCTGATTCATGACCAGG 730
Db |||||
QY 437 CCTACATCCTTTGTCACTGCTGGGCTCTCCATGATGGCTGCTGGGTGATGATCAGA 496
Db |||||
QY 731 GCATGCCCAAGAACTGTCTCTGATTTCTTATTTCTCAGTATGATCTTCATTAAGGGCAGCT 790
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QY 497 GTAGCCCAAGACCGGCTCTCTGATAATCCTCTGGGCATGATCTTAATGGAGGGCAGCC 556
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QY 970 CCAAGAGCCCATTCAGAGGCCAGCA 994
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Db |||||

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Job time : 2704 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 16:50:22 ; Search time 404 Seconds
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Title: US-10-085-108-21

Perfect score: 1041

Sequence: 1 ATGCTCTCTTCACAACT.....CTATCCAGTATCATCCCTAG 1041

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1041	100.0	1041	25	ABX95006 cDNA encoding huma
2	775	74.4	7806	23	AAS88354 DNA encoding novel
3	486.4	46.7	1983	25	ABX95004 cDNA encoding huma
4	486.4	46.7	2940	20	AAV69727 Tumour rejection a
5	486.4	46.7	2940	25	ABX95005 DNA encoding huma
6	484.8	46.6	1983	20	AAV69726 Tumour rejection a
7	425	40.8	425	22	ABA46075 Human breast cell
8	425	40.8	425	22	ABA56617 Human foetal liver

C 9	425	40.8	425	22	ABA26230	Probe #4596 for ge
C 10	425	40.8	425	22	AAK04758	Human brain expres
C 11	425	40.8	425	22	AAK30282	Human bone marrow
C 12	425	40.8	425	22	AAI14882	Probe #4815 for ge
C 13	425	40.8	425	22	AAI36237	Probe #4923 used t
C 14	425	40.8	425	22	AAI04666	Probe #4657 used t
C 15	425	40.8	425	23	ABS29927	Human liver single
C 16	425	40.8	425	24	ABS04866	Human genome-deriv
C 17	424	40.7	424	22	ABA51188	Human breast cell
C 18	424	40.7	424	22	ABA69192	Human foetal liver
C 19	424	40.7	424	22	ABA36116	Probe #14582 for g
C 20	424	40.7	424	22	AAK17490	Human brain expres
C 21	424	40.7	424	22	AAK43299	Human bone marrow
C 22	424	40.7	424	22	AAI24071	Probe #14004 for g
C 23	424	40.7	424	22	AAI49367	Probe #18053 used
C 24	424	40.7	424	22	AAI09651	Probe #9642 used t
C 25	424	40.7	424	22	ABS42926	Human liver single
C 26	424	40.7	424	24	ABS17378	Human genome-deriv
C 27	411.4	39.5	1873	22	ABA57094	Human foetal liver
C 28	411.4	39.5	1873	22	ABA26674	Probe #5140 for ge
C 29	411.4	39.5	1963	22	ABA26693	Probe #5159 for ge
C 30	411.4	39.5	4031	20	AAV69717	Tumour rejection a
C 31	411.4	39.5	4031	25	ABX33690	Human tumour rejec
C 32	411.4	39.5	4225	20	AAV69720	Tumour rejection a
C 33	411.4	39.5	4225	25	ABX93697	cDNA encoding huma
C 34	411.4	39.5	4265	21	AAZ36149	DNA encoding cance
C 35	411.4	39.5	4265	23	AAS88353	DNA encoding novel
C 36	411.4	39.5	4720	25	ABX95023	DNA encoding human
C 37	411.4	39.5	30274	23	AAS85251	DNA encoding novel
C 38	342.2	32.9	1110	25	ABX76240	Lung cancer-associ
C 39	342.2	32.9	1528	25	ACC51029	Human bladder canc
C 40	342.2	32.9	2559	19	AAV26618	MAGE-10 tumour rej
C 41	342.2	32.9	2559	21	AAO13132	Human MAGE-A10 cDN
C 42	342.2	32.9	2559	21	AAS52965	Human tumour rejec
C 43	342.2	32.9	3510	19	ABQ76210	Human tumour antig
C 44	342.2	32.9	3510	21	AAO13131	Human MAGE-A10 gen
C 45	340.6	32.7	1545	22	AAF72765	Human prostate can

ALIGNMENTS

RESULT 1
ABX95006
ID ABX95006 standard; cDNA; 1041 BP.

XX ABX95006;

DT 05-JUN-2003 (first entry)

XX cDNA encoding human tumour rejection antigen precursor, MAGE-C3.

TRAP; ss; tumour rejection antigen precursor; cytolytic T-cell; CTL;
tumour; seminoma; bladder transitional-cell carcinoma; NSCLC; adaptor;
head-and-neck squamous-cell carcinoma; breast carcinoma; sarcoma;
cutaneous melanoma; nonsmall cell lung cancer; gene; MAGE-C3; human;
chromosome Xq27.1-Xq27.3.

XX Homo sapiens.

XX Key Location/Qualifiers

FT CDS 1..1041

FT FT /*tag= a

FT FT /product= "MAGE-C3"

XX US2002176865-A1.

XX 28-NOV-2002.

XX 01-MAR-2002; 2002US-0085108.

XX 09-FEB-2000; 2000US-0501104.

PR 25-APR-1997; 97US-0845528.

PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity -

PS Claim 1; SEQ ID No 24158; 103pp; English.

The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention.

Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published/pct sequences.

Sequence 7806 BP; 1755 A; 2185 C; 1760 G; 2106 T; 0 other;

Query Match	74.4%	Score 775;	DB 23;	Length 7806;
Best Local Similarity	100.0%;	Prod. No. 3.7e-221;		
Matches 775;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	ATGCCTCTCTTTCCAAACCTTCCACGCGCTCAGCTTTGAGGAAGACTTCCAGAACC	CGGT	60
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QY	61	GTGACAGAGACTTGGTAGATGCACAGGATTCATATAGATGAGGAGGAGGATGCCTCC		120
Db	3321	GTGACAGAGACTTGGTAGATGCACAGGATTCATATAGATGAGGAGGAGGATGCCTCC		3380
QY	121	TCCACTTCCCTCTCTCTTTCCAGCTTTTATTCGCCCTCCCTCTTCTGTGCTCATCC		180
Db	3381	TCCACTTCCCTCTCTCTTTCCAGCTTTTATTCGCCCTCCCTCTTCTGTGCTCATCC		3440
QY	181	TCACCCCTGTGCTTCACCGCTTACCTCTACTCTCATTTCTGGGTGTTCAGAAAGATGAGGAT		240
Db	3441	TCACCCCTGTGCTTCACCGCTTACCTCTACTCTCATTTCTGGGTGTTCAGAAAGATGAGGAT		3500
QY	241	ATGCCTGCTGCTGGGATGCACCTCTTCCCGCAGAGTCTCTCTGAGATTCCTCCCGAGGGT		300
Db	3501	ATGCCTGCTGCTGGGATGCACCTCTTCCCGCAGAGTCTCTCTGAGATTCCTCCCGAGGGT		3560
QY	301	CCCTCCCAAGATCTCTCCCGAGGGTCTTCGCGCAGAGTCTCCCGCAGAGTCTCTCTAGACTCC		360
Db	3561	CCCTCCCAAGATCTCTCCCGAGGGTCTTCGCGCAGAGTCTCTCCCGCAGAGTCTCTCTAGACTCC		3620
QY	361	TGCTCATCCCTCTTTTGTGGACCGGATTCGAGTTCAGGAGTCCAGCAGTGAAGAGGAGGAT		420
Db	3621	TGCTCATCCCTCTTTTGTGGACCGGATTCGAGTTCAGGAGTCCAGCAGTGAAGAGGAGGAT		3680
QY	421	ACAGCTACTTGGCATGCGCTTGCACGAAGTGAATCCTTGGCGAGGTATGCCCTGGATGAA		480
Db	3681	ACAGCTACTTGGCATGCGCTTGCACGAAGTGAATCCTTGGCGAGGTATGCCCTGGATGAA		3740
QY	481	AAGGTGCGTCAGTTGGTGCACTTCTCTCCTCAAAATATCAAAACAAAGAGCTGTGCACA		540
Db	3741	AAGGTGCGTCAGTTGGTGCACTTCTCTCCTCAAAATATCAAAACAAAGAGCTGTGCACA		3800
QY	541	AAGCGAGATGCTGACGATGTCATCAAGAAGTATAAGGACTATTTTCCCATGATCTTC		600
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Db 305 ACGACTGTCACAGAGTATAAGGACTATTTCCTCATGATCTTCGGAAAGCCCATGAG 246
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QY 796 CCCGAGGAGGTCATCTGGGAAGTGTGAGTGCAATAGGGGTGTGTGCTGGGAGGAGGCAC 855
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QY 856 TTTTAT 860
Db 5 TTTTAT 1

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RESULT 8

ABA56617/C

ID ABA56617 standard; DNA; 425 BP.

XX AC

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SQ Sequence 425 BP; 112 A; 107 C; 94 G; 112 T; 0 other;

Query Match 40.8%; Score 425; DB 22; Length 425;

Best Local Similarity 100.0%; Pred. NO. 6.6e-117;

Matches 425; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 436 GCCTTGCCAGAAAGTGAATCCTTCCCGAGGTATGCCCTGGATGAAAGGTGGCTGAGTTG 495

Db 425 GCCTTGCCAGAAAGTGAATCCTTCCCGAGGTATGCCCTGGATGAAAGGTGGCTGAGTTG 366

QY 496 GTGCAGTTTCTTCTCCCTCAAAATATCAAAAGAGGCTGTCAAAAGGCGAGATGCTG 555

Db 365 GTGCAGTTTCTTCTCCCTCAAAATATCAAAAGAGGCTGTCAAAAGGCGAGATGCTG 306

QY 556 ACAGCTCTCATCAAGAGTATAGGACTATTTTCCCATGATCTTCGGGAAGCCCATGAG 615

Db 305 ACAGCTCTCATCAAGAGTATAGGACTATTTTCCCATGATCTTCGGGAAGCCCATGAG 246

QY 616 TTCATAGAGCTAAATTTTGGCAITTCCTGACTGATATGGACCCCGACCACTCCTAT 675

Db 245 TTCATAGAGCTAAATTTTGGCAITTCCTGACTGATATGGACCCCGACCACTCCTAT 186

QY 676 TTCCTTTGAAGACACATTAGACCTCACCTATGAGGGAAGCCCTGATTGATGACCCAGGCGATG 735

Db 185 TTCCTTTGAAGACACATTAGACCTCACCTATGAGGGAAGCCCTGATTGATGACCCAGGCGATG 126

QY 736 CCCAAGAACTGTCTCCTGATTCTTTATTTCTCAGTATGATCTTCATAAAGGCGAGCTGTGTC 795

Db 125 CCCAAGAACTGTCTCCTGATTCTTTATTTCTCAGTATGATCTTCATAAAGGCGAGCTGTGTC 66

QY 796 CCCGAGGAGTCACTCGGGAAGTGTTCAGTGCAATAGGGGTGTGTGCTGGGAGGAGGCAC 855

Db 65 CCCGAGGAGTCACTCGGGAAGTGTTCAGTGCAATAGGGGTGTGTGCTGGGAGGAGGCAC 6

QY 856 TTTTAT 860

Db 5 TTTTAT 1

RESULT 9

ABA26230/C

ID ABA26230 standard; DNA; 425 BP.

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Human; gene expression; heart; microarray; vascular system; probe;

cardiovascular disease; hypertension; cardiac arrhythmia;

congenital heart disease; ss.

Homo sapiens.

WO200157274-A2.

09-AUG-2001.

30-JAN-2001; 2001WO-US006666.

04-FEB-2000; 2000US-0180312.

26-MAY-2000; 2000US-0207456.

30-JUN-2000; 2000US-0608408.

03-AUG-2000; 2000US-0632366.

21-SEP-2000; 2000US-0234687.

27-SEP-2000; 2000US-0236359.

04-OCT-2000; 2000GB-0024263.

(MOLE-) MOLECULAR DYNAMICS INC.

Penn SG, Hanzel DK, Chen W, Rank DR;

XX

XX

XX

XX

XX

XX

Db 305 ACGACTGTCACAGAGTATAAGGACTATTTCCTCATGATCTTCGGAAAGCCCATGAG 246

QY 616 TTCATAGAGCTAAATTTTGGGCAATTCCTGACTGATATGGACCCCGACCAACACTTCCTAT 675

Db 245 TTCATAGAGCTAAATTTTGGGCAATTCCTGACTGATATGGACCCCGACCAACACTTCCTAT 186

QY 676 TTCCTTTGAAGACACATTAGACTCACTACCTATGAGGGAAGCCCTGATTGATGACCCAGGCGATG 735

Db 185 TTCCTTTGAAGACACATTAGACTCACTACCTATGAGGGAAGCCCTGATTGATGACCCAGGCGATG 126

QY 736 CCCAAGAACTGTCCTCATCTTATTCCTGATATCTCAGTATGATCTTCATAAAGGCGAGCTGTGTC 795

Db 125 CCCAAGAACTGTCCTCATCTTATTCCTGATATCTCAGTATGATCTTCATAAAGGCGAGCTGTGTC 66

QY 796 CCCGAGGAGGTCATCTGGGAAGTGTGAGTGCAATAGGGGTGTGTGCTGGGAGGAGGCAC 855

Db 65 CCCGAGGAGGTCATCTGGGAAGTGTGAGTGCAATAGGGGTGTGTGCTGGGAGGAGGCAC 6

QY 856 TTTTAT 860

Db 5 TTTTAT 1

Human foetal liver single exon nucleic acid probe #4922.

Human; foetal liver; gene expression; single exon nucleic acid probe; ss.

Homo sapiens.

WO200157277-A2.

09-AUG-2001.

30-JAN-2001; 2001WO-US006669.

04-FEB-2000; 2000US-0180312.

26-MAY-2000; 2000US-0207456.

30-JUN-2000; 2000US-0608408.

03-AUG-2000; 2000US-0632366.

21-SEP-2000; 2000US-0234687.

27-SEP-2000; 2000US-0236359.

04-OCT-2000; 2000GB-0024263.

(MOLE-) MOLECULAR DYNAMICS INC.

Penn SG, Hanzel DK, Chen W, Rank DR;

WPI; 2001-483447/52.

Human genome-derived single exon nucleic acid probes useful for

analyzing gene expression in human foetal liver -

Claim 1; SEQ ID NO 4922; 639pp + sequence listing; English.

The invention relates to a single exon nucleic acid probe for

measuring human gene expression in a sample derived from human foetal

liver. The single exon nucleic acid probes may be used for predicting,

measuring and displaying gene expression in samples derived from human

fetal liver. The present sequence is a single exon nucleic acid

probe of the invention.

Note: The sequence data for this patent did not form part of the

printed specification, but was obtained in electronic format directly

from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX

RESULT 11
AAK30282/c
ID AAK30282 standard; DNA; 425 BP.
XX
AC AAK30282;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human bone marrow expressed single exon probe SEQ ID NO: 4839.
XX
KW Human; bone marrow expressed exon; gene expression analysis; probe;
KW microarray; cancer; leukaemia; lymphoma; myeloma; ss.
XX
OS Homo sapiens.
XX
PN WO200157276-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00669.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488900/53.
XX
PT Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human bone marrow -
XX
PS Example 4; SEQ ID NO: 4839; 658pp + Sequence Listing; English.
XX
CC The present invention provides a number of single exon nucleic acid
CC probes which are derived from genomic sequences expressed in the human
CC bone marrow. They can be used to measure gene expression in bone marrow
CC samples, which may enable the improved diagnosis and treatment of cancers
CC such as lymphoma, leukaemia and myeloma. The present sequence is one of
CC the probes of the invention.
XX
SQ Sequence 425 BP; 112 A; 107 C; 94 G; 112 T; 0 other;
Query Match 40.8%; Score 425; DB 22; Length 425;
Best Local Similarity 100.0%; Pred. No. 6.6e-117;
Matches 425; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 436 GCCTTCCAGAAAGTGAATCTTCCAGAGTATGCTTCTCAGTATGATCTTCAATAAGGCGAGCTGTGC 495
Db 425 GCCTTCCAGAAAGTGAATCTTCCAGAGTATGCTTCTCAGTATGATCTTCAATAAGGCGAGCTGTGC 366
QY 496 GTGCAGTTCTTCTCTCAATATCAACAAAGAGCTGTGCACAAAGGCGAGATGCTG 555
Db 365 GTGCAGTTCTTCTCTCAATATCAACAAAGAGCTGTGCACAAAGGCGAGATGCTG 306
QY 556 ACAGTGTATCAAGAGTATGAGGACTATTTTCCATGATCTTTCGGGAAGCCCATGAG 615
Db 305 ACAGTGTATCAAGAGTATGAGGACTATTTTCCATGATCTTTCGGGAAGCCCATGAG 246
QY 616 TTCATAGAGCTAATTTTGGCAATGCTGCTGATATGACCCCGACACCTCTCTAT 675
Db 245 TTCATAGAGCTAATTTTGGCAATGCTGCTGATATGACCCCGACACCTCTCTAT 186
QY 676 TTCTTTGAAGACACATTAGACCTCACCTATGAGGAGGCTGATTGATGACCGGGCATG 735
Db 185 TTCTTTGAAGACACATTAGACCTCACCTATGAGGAGGCTGATTGATGACCGGGCATG 126

QY 736 CCCAGAACTGTCTCTGATTCCTTATTTCTCAGTATGATCTTCAATAAGGCGAGCTGTGC 795
Db 125 CCCAGAACTGTCTCTGATTCCTTATTTCTCAGTATGATCTTCAATAAGGCGAGCTGTGC 66
QY 796 CCCAGAGAGTCACTCTGGGAAGTGTTCAGTGCATAGGGGTGTCTGCGAGGAGGACAC 855
Db 65 CCCAGAGAGTCACTCTGGGAAGTGTTCAGTGCATAGGGGTGTCTGCGAGGAGGACAC 6
QY 856 TTTTAT 860
Db 5 TTTTAT 1
RESULT 12
AAI14882/c
ID AAI14882 standard; DNA; 425 BP.
XX
AC AAI14882;
XX
DT 12-OCT-2001 (first entry)
XX
DE Probe #4815 for gene expression analysis in human cervical cell sample.
XX
KW Probe; human; microarray; gene expression; cervical epithelial cell;
KW cervical cancer; ss.
XX
OS Homo sapiens.
XX
PN WO200157278-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00670.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488901/53.
XX
PT Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human cervical epithelial cells -
XX
PS Claim 25; SEQ ID No 4815; 487pp; English.
XX
CC The present invention relates to human single exon nucleic acid probes
CC (SENPs). The present sequence is one such probe. The SENPs are derived
CC from human HeLa cells. The SENPs can be used to produce a single exon
CC microarray, which can be used for measuring human gene expression in a
CC sample derived from human cervical epithelial cells. By measuring gene
CC expression, the probes are therefore useful in grading and/or staging
CC of diseases of the cervix, notably cervical cancer.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 425 BP; 112 A; 107 C; 94 G; 112 T; 0 other;
Query Match 40.8%; Score 425; DB 22; Length 425;
Best Local Similarity 100.0%; Pred. No. 6.6e-117;
Matches 425; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 436 GCCTTCCAGAAAGTGAATCTTCCAGAGTATGCTTCTCAGTATGATCTTCAATAAGGCGAGCTGTGC 495

KW	Human; single exon nucleic acid probe; liver; cirrhosis;
KW	hyperlipoproteinaemia; hyperlipidaemia; hypercholesterolaemia;
KW	coronary heart disease; sr.
XX	
OS	Homo sapiens.
XX	
PN	WO200157273-A2.
XX	
PD	09-AUG-2001.
XX	
PF	30-JAN-2001; 2001WO-US00664.
XX	
PR	04-FEB-2000; 2000US-0180312.
PR	26-MAY-2000; 2000US-0207456.
PR	30-JUN-2000; 2000US-0608408.
PR	03-AUG-2000; 2000US-0632366.
PR	21-SEP-2000; 2000US-0234687.
PR	27-SEP-2000; 2000US-0236359.
PR	04-OCT-2000; 2000GB-0024263.
XX	
PA	(MOLE-) MOLECULAR DYNAMICS INC.
XX	
PI	Penn SG, Hanzel DK, Chen W, Rank DR;
XX	
DR	WPI; 2001-488898/53.
XX	
PT	Human genome-derived single exon nucleic acid probes useful for
PT	analysing gene expression in human adult liver -
XX	
ES	Claim 1; SEQ ID No 4917; 658pp; English.
XX	
CC	The invention relates to a single exon nucleic acid probe (SENP) (I) for
CC	measuring human gene expression in a sample derived from human adult
CC	liver, comprising one of 13109 defined nucleotide sequences given in the
CC	specification (or complements/ fragments). The probe hybridises at high
CC	stringency to a nucleic acid molecule expressed in the human adult
CC	liver. (I) may be used for predicting, measuring and displaying gene
CC	expression in samples derived from human adult liver. The genes
CC	identified may be involved in genetic liver diseases such as cirrhosis,
CC	hyperlipoproteinaemia, hyperlipidaemia and hypercholesterolaemia which
CC	is associated with coronary heart disease. AB25011-AB251005 represent
CC	human liver single exon nucleic acid probes of the invention.
CC	Note: The sequence information for this patent does not appear in the
CC	printed specification but was obtained in electronic format directly
CC	from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX	
SQ	Sequence 425 BP; 112 A; 107 C; 94 G; 112 T; 0 other;
	Query Match 40.8%; Score 425; DB 23; Length 425;
	Best Local Similarity 100.0%; Pred. No. 6.6e-117;
	Matches 425; Conservative 0; Mismatches 0; Indels 0; Gaps 0
QY	436 GCCTTGCGCAAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAAAAGTCGGCTGAGTTG 495
Db	425 GCCTTGCGCAAAAGTGAATCCTTGCCCAGGTATGCCCTGGATGAAAAGTGCCTGAGTTG 366
QY	496 GTGCAGTTTCTTCTCTCAAATATCAACAAAAGAGCCTGTCAAAAGGCAGAGATGCTG 555
Db	365 GTGCAGTTTCTTCTCTCAAATATCAACAAAAGAGCCTGTCAAAAGGCAGAGATGCTG 306
QY	556 ACCACTGTCTCATCAAGAAGTATAAGGACTATTTCCTCCATGATCTTCGGGAAGCCCATGAG 615
Db	305 ACCACTGTCTCATCAAGAAGTATAAGGACTATTTCCTCCATGATCTTCGGGAAGCCCATGAG 246
QY	616 TTCATAGAGCTAATTTTTTGGCATTGCCCTGACTGATATGGACCOCGACAACCACTCCTAT 675
Db	245 TTCATAGAGCTAATTTTTTGGCATTGCCCTGACTGATATGGACCOCGACAACCACTCCTAT 186
QY	676 TTCTTTTGAACACATTAGACCTCACCTATGAGGGAGCCTGATGATGACCAAGGCATG 735
Db	185 TTCTTTTGAACACATTAGACCTCACCTATGAGGGAGCCTGATGATGACCAAGGCATG 126
QY	736 CCCAAGAACTGTCCTCTGATTTCTTATCTTCAGTATGATCTTTCATAAAGGCAGCTGTGTC 795

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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 18:04:16 ; Search time 97 Seconds
(without alignments)
4736.906 Million cell updates/sec

Title: US-10-085-108-21

Perfect score: 1041

Sequence: 1 ATGGCTCTCTTCCTCAACCT.....CTATCCAGTATCATCCCTAG 1041

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Lasting first 45 summaries

Database :

- Issued Patents NA:*
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 - 2: /cgn2_6/ptodata/1/ina/5B-COMB.seq:*
 - 3: /cgn2_6/ptodata/1/ina/5A-COMB.seq:*
 - 4: /cgn2_6/ptodata/1/ina/5B-COMB.seq:*
 - 5: /cgn2_6/ptodata/1/ina/PCTUS-COMB.seq:*
 - 6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	486.4	46.7	1983	4	US-09-066-281B-18
2	486.4	46.7	2940	4	US-09-066-281B-20
3	411.4	39.5	4031	2	US-08-993-118-1
4	411.4	39.5	4031	3	US-08-845-528C-1
5	411.4	39.5	4031	4	US-09-066-281B-1
6	411.4	39.5	4225	2	US-08-993-118-9
7	411.4	39.5	4225	3	US-08-845-528C-9
8	411.4	39.5	4225	4	US-09-066-281B-9
9	411.4	39.5	4265	3	US-09-061-709-1
10	411.4	39.5	4265	4	US-09-899-651-1
11	342.2	32.9	2559	2	US-08-724-774B-3
12	342.2	32.9	2559	3	US-09-089-595-3
13	342.2	32.9	2559	3	US-09-382-855-3
14	342.2	32.9	2559	3	US-09-183-714B-3
15	342.2	32.9	2559	4	US-09-642-281-3
16	342.2	32.9	2559	4	US-09-589-717-3
17	342.2	32.9	3510	3	US-09-056-105-16
18	314.4	30.2	1412	1	US-08-299-849B-21
19	314.4	30.2	1412	2	US-08-142-368A-21
20	314.4	30.2	1412	3	US-08-967-727-21
21	314.4	30.2	1412	3	US-08-037-230D-21
22	314.4	30.2	1412	4	US-09-583-850-21
23	314.4	30.2	1412	4	US-09-579-197-21
24	314.4	30.2	1412	4	US-09-404-026-21
25	314.4	30.2	2931	3	US-09-056-105-15
26	312.2	30.0	1810	1	US-08-299-849B-20
27	312.2	30.0	1810	2	US-08-142-368A-20

Sequence 20, Appl
Sequence 20, Appl
Sequence 20, Appl
Sequence 20, Appl
Sequence 20, Appl
Sequence 14, Appl
Sequence 17, Appl
Sequence 23, Appl
Sequence 23, Appl
Sequence 23, Appl
Sequence 23, Appl
Sequence 23, Appl
Sequence 23, Appl
Sequence 8, Appl
Sequence 8, Appl
Sequence 8, Appl
Sequence 23, Appl
Sequence 4, Appl

ALIGNMENTS

RESULT 1

US-09-066-281B-18

; Sequence 18, Application US/09066281B

; Patent No. 6475783

; GENERAL INFORMATION:

; APPLICANT: LUCAS, Sophie; DE SMET, Charles; BOON-FALLEUR, Thierry

; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING

; TITLE OF INVENTION: FOR TUMOR REJECTION ANTIGEN PRECURSOR MAGE-C1 AND MAGE-C2

; NUMBER OF SEQUENCES: 20

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fulbright & Jaworski L.L.P.

; STREET: 666 Fifth Avenue

; CITY: New York City

; STATE: New York

; COUNTRY: USA

; ZIP: 10103

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/066,281B

; FILING DATE: April 24, 1998

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/845,528

; FILING DATE: April 25, 1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Mary Anne Schofield

; REGISTRATION NUMBER: 36,669

; REFERENCE/DOCKET NUMBER: LUD 5455.2 US - JEL/MAS

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 318-3100

; TELEFAX: (212) 752-5958

; INFORMATION FOR SEQ ID NO: 18:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1983 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double-stranded

; TOPOLOGY: linear

US-09-066-281B-18

Query Match 46.7%; Score 486.4; DB 4; Length 1983;

Best Local Similarity 73.0%; Pred. No. 1e-116;

Matches 764; Conservative 0; Mismatches 211; Indels 71; Gaps 8;

QY 1 ATGGCTCTCTTCCTCAACCTTCACGGCTTCAGCTTTCAGGAGACTTCCAGACCCGAGT 60

[illegible]

RESULT 2

US-09-066-281B-20

QY 418 GATACAGCTACTTGCGATGCTTCCAGAAAGTGAATCTTSCCAGGTATGCTCCTGGAT 477
Db |||||
QY 1653 GATACAGGCACCTGTGAGGCTCCAGACAGTGTGCTCTTTACATATACACTAGAT 1712
Db |||||
QY 478 GAAAGGTGCTGAGTGTGCTGCTTCTTCTCAATATCAAAAGAGCCCTGTC 537
Db |||||
QY 1713 GAAAGGTGCTGAGTGTGCTGCTTCTTCTCAATATCAAAAGAGCCCTGTA 1772
Db |||||
QY 538 ACRAAGCAGAGATGCTGACGACTGTCTATCAAGAGTATAGGACTATTTTCCCATGTC 597
Db |||||
QY 1773 ACAGAGCAGAGATGCTGATGATGCTATC---AAGTACAAAGATTAATTTTCTGTGATA 1829
Db |||||
QY 598 TTGCGGAAAGCCCAAGTATGATGCTATTTTGGCAATTTGCTGACTGATGATGAC 657
Db |||||
QY 1830 CTCAGAGAGCCCTGAGTTCATGAGCTCTTTTGGCCCTTGCCCTGATAGAGTGGC 1889
Db |||||
QY 658 CCGACACACCACTCTATTTCTTTTGAAGACATAGACCTACCTATGAGGGAGCCTG 717
Db |||||
QY 1890 CCTG---ACCACCTTCTGTGTGTTTGAACACAGTAGGCTCACCGATGAGGTAG--- 1942
Db |||||
QY 718 ATTGATCAGCAGGAGTCCCAAGAACTGTCTCTGATTTCTTATCTCAGTATGATCTTC 777
Db |||||
QY 1943 --TGATGATGAGGCAATGCGGAGAACAGCTCTGATTAATTTCTGATGATCTTC 2000
Db |||||
QY 778 ATAAAGGCGAGTGTGCTGCTGAGGAGTCTATGCGGAGTGTGAGTGAATAGGGGTG 837
Db |||||
QY 2001 ATAAAGGCAACTGTGCTCTGAGGAGTCTATGCGGAGTGTGAGTGAATAGGGGTA 2060
Db |||||
QY 838 TGTCCTGGGAGGAGCACTTATATATGCGGAGTCCCAAGAGTGTCTACATACATGAG 897
Db |||||
QY 2061 TATGCTGGGAGGAGCACTTGTCTATGGGAGCTAGGAGCTCTCTCACTAAAGTTGG 2120
Db |||||
QY 898 GTGACAGAAAGTACCTGGAGTACCGGAGGTGCGCAACAGTGTCTCTCAGCTATGAA 957
Db |||||
QY 2121 GTGACGGAATATCTGAGTATCGGAGGTGCGCAACAGTGTCTCTCTATATGAA 2180
Db |||||
QY 958 TTTTGTGGGTCCAGAGCCCATTCAGAGCCAGCAAGA--GAAGTCTTATGAGTTTAA 1015
Db |||||
QY 2181 TTCTGTGGGTCCAGAGCCCATTCAGAAAGCATCAAGAAAGTACTAGAGTTTAA 2240
Db |||||
QY 1016 TCCAAGTATCCAGTATCATCCCTAG 1041
Db |||||
QY 2241 GCCAGCTGAACACACTGTTCCTAG 2266
Db |||||

RESULT 3
US-08-993-118-1
; Sequence 1, Application US/08993118
; Patent No. 5997872
; GENERAL INFORMATION:
; APPLICANT: LUCAS, Sophie;
; APPLICANT: DE SMET, Charles;
; APPLICANT: BOON-FALLEUR, Thierry
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR
; TITLE OF INVENTION: REJECTION ANTIGEN PRECURSOR MAGE-C1 AND USES
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pelfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/993,118
; FILING DATE:

CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/845,528
; FILING DATE: April 25, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mary Anne Schofield
; REGISTRATION NUMBER: 36,669
; REFERENCE/DOCKET NUMBER: LUD 5455
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4031 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double-stranded
; TOPOLOGY: linear
; US-08-993-118-1

Query Match 39.5%; Score 411.4; DB 2; Length 4031;
Best Local Similarity 74.1%; Pred. No. 3.6e-97;
Matches 608; Conservative 0; Mismatches 166; Indels 47; Gaps 5;

QY 264 TCTTCCCAAGAGTCTCTGAGATTC---TCCCAAGAGTCTCTCCCAAGATCTCTCCCA 320
Db |||||
QY 321 GGTCCTCCGAGAGTCTCTCCCAAGAGTCTCTGAGTCTCTGATCTCTGATCTCTGATCT 380
Db |||||
QY 2578 GAGTCTCCCTGAGAGTCTCTCCCAAGAGTCTCTGATCTCTGATCTCTGATCTCTGAT 2637
Db |||||
QY 381 GACCCGATTTGATGAGAGTCTCTCCCAAGAGTCTCTGAGTCTCTGATCTCTGATCTCTGAT 437
Db |||||
QY 2638 GAGCCGATTTGATGAGAGTCTCTCCCAAGAGTCTCTGAGTCTCTGATCTCTGATCTCTGAT 2697
Db |||||
QY 438 CTTGCCAGAAAGTGAATCTCTGCT---TCCCAAGAGTCTCTCCCAAGAGTCTCTCCCA 461
Db |||||
QY 2698 CTTGCTAGAGAGTGAATCTCTGACAGAGAGTCTCTGATGAGAGAGAGAGAGAGAGAG 2757
Db |||||
QY 462 CAGGTATGCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 521
Db |||||
QY 2758 CACTTATACACTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2817
Db |||||
QY 522 AACAAAGAGAGCTGTCCAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 581
Db |||||
QY 2818 AGTGAAGAGAGCTATCAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2877
Db |||||
QY 582 CTATTTTCCCATGATCTCTCGGAAAGCCCATGAGTCTCATAGAGTAAATTTTGGCAATTGC 641
Db |||||
QY 2878 CTATTTTCCCATGATCTCTCGGAAAGCCCATGAGTCTCATAGAGTAAATTTTGGCAATTGC 2937
Db |||||
QY 642 CCGTACTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 701
Db |||||
QY 2938 CCGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2994
Db |||||
QY 702 CTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 761
Db |||||
QY 2995 CTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3054
Db |||||
QY 762 TCTCAGTATGATCTCTCAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 821
Db |||||
QY 3055 TCTGAGTATCATCTTCAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3114
Db |||||
QY 822 GAGTCAATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 881
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QY 3115 GAGTGAATAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3174
Db |||||
QY 882 GCTCACTATACATTTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 941
Db |||||
QY 3175 CCTCACTAAAGTTTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3234
Db |||||
QY 942 TCCTCCAGGTTATGAAATTTTGTGGGGTCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 999
Db |||||

Db 3235 TCCTCCTCGTTAGCAATTCCTGGGTCCAAGAGCTCAITCAGAGTCAITTAAGAGAA 3294
QY 1000 AGCTTAGAGTTTTTATCCAGCTATCCAGTATCATCCCTA 1040
Db 3295 AGTAGTAGTTTTTGGCCATGCTTAAGATACCGTCCCTA 3335

RESULT 4

US-08-845-528C-1
; Sequence 1, Application US/08845528C
; Patent No. 6027924
; GENERAL INFORMATION:
; APPLICANT: LUCAS, Sophie;
; APPLICANT: DE SMET, Charles;
; APPLICANT: BOON-FALLER, Thierry
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR
; TITLE OF INVENTION: REJECTION ANTIGEN PRECURSOR MAGE-C1 AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESS: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/845,528C
; FILING DATE: April 25, 1997
; CLASSIFICATION: 4335
; ATTORNEY/AGENT INFORMATION:
; NAME: Mary Anne Schofield
; REGISTRATION NUMBER: 36,669
; REFERENCE/DOCKET NUMBER: LUD 5455
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4031 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double-stranded
; TOPOLOGY: linear
US-08-845-528C-1

Query Match 39.5%; Score 411.4; DB 3; Length 4031;
Best Local Similarity 74.1%; Pred.No. 3.6e-97;
Matches 608; Conservative 0; Mismatches 166; Indels 47; Gaps 5;
QY 264 TCCTCCCGAGTCCTCTGAGATTC--TCCCGAGGTCCTCCCAAGATCTCTCCCA 320
Db 2518 TCCTCCCGAGTCCTCTGAGTCCTTCCCTCTCTCCACTTCATCGAGTCTTCCAA 2577
QY 321 GGGTCCTCCCGAGTCCTCCCGAGTCCTCTAGACTCTCTGCTATCCCTCTTTTG 380
Db 2578 GAGTTCCTCCGAGTCCTCTCCAGAGTCCTGATCTCTCTCTCTCTCCACITCAT 2637
QY 381 GACCCGATTCGATGAGAGTCACAG--TGAAGAGGAGGATACAGCTACTTGGCATGC 437
Db 2638 GAGCCCATTCAGTGAAGAGTCACAGCCAGTAGATGAATACAAAGTTCCTCAGAC 2697
QY 438 CTTCGAGAGAGTGAATCCTTGGC-----461
Db 2698 CTTCGATGAGAGTGAATCCTTTCAGACACAGCGAGTCCTTGAATAGAGCGAGCCTTGT 2757
QY 462 CAGGTATGCCCTGGATGAAGAGTGGCTGAGTTGGTGAGTTTCTCTCTCAATATCA 521
Db 2758 CACTTATACACTGATGAAGAGTGGACGAGTTGGCGGTTTCTCTCTCAATATCA 2817

QY 522 AACAAAGAGCCCTGTACAAAGCGAGAGATGCTGACGACTGTCTCATCAAGAGTATAAGGA 581
Db 2818 AGTGAAGCAGCCCTATCACAAAGCGAGAGATGCTGACGAATGTCTCATCAGCAGGTACAGGG 2877
QY 582 CTATTTTCCCATGATCTTCGGGAAAGCCCATGAGTTTCATAGAGCTAATTTTGGCATTC 641
Db 2878 CTACTTTCTGTGATCTTCAGGAAGCCCGTGAAGTTTCATAGAGATCTTTTGGCATTC 2937
QY 642 CTGACTGATATGAGCCCGACAACTCTCTATTTTGAAGACACATTAGACCTCAC 701
Db 2938 CCTGAGAGAGTGGACCCCTG---ATGACTCTATGTCTTTTGAACACATTAGACCTCAC 2994
QY 702 CTATGAGGAAGCCTGATGATCACCAGGCGATGCCAAGAACTGTCTCTGATTTCTTAT 761
Db 2995 CTCTGAGGGGTGTCTGAGTGATGAGCAGGSCATGTCCCAAGCCGCTCTCTGATTTCTTAT 3054
QY 762 TCTCAGTATGATCTTCATAAAGGCGAGCTGTGTCCCGAGGAGGTCTATCTGGGAAGTGT 821
Db 3055 TCTGAGTATCATCTTCATAAAGGCGACCTATGCTCTGAGGAGGTCTATCTGGGATGTCT 3114
QY 822 GAGTCAATAGGGGTGTCTGAGGAGGAGCAGCTTTATATATGAGGATCCCCAAGAGCT 881
Db 3115 GAGTGAATAGGGGTGTCTGAGGAGGAGCAGCTTTGCTTTGGGAGGCCAGGAGCT 3174
QY 882 GCTCACTATACATTTGGTGCAGAGAAAGTACCTGGAGTACCGGAGGTGCCACAGTGC 941
Db 3175 CTTCACTAAAGTTGGTGCAGAACATTACCTAGAGTACCGGAGGTGCCAATCTTTC 3234
QY 942 TCCTCCAGCTTATGAATTTTGTGGGTCCAGAGCCCATTCAGAGCCAGCAGAGAG--A 999
Db 3235 TCCTCTCGTTACGAATTCCTGTGGGTCCAGAGCTCATTCAGAGTCAITTAAGAGGA 3294
QY 1000 AGCTTAGAGTTTTTATCAAGCTATCCAGTATCATCCCTA 1040
Db 3295 AGTAGTAGTTTTTGGCCATGCTAAAGAAATACCGTCCCTA 3335

RESULT 5

US-09-066-281B-1
; Sequence 1, Application US/09066281B
; Patent No. 6475783
; GENERAL INFORMATION:
; APPLICANT: LUCAS, Sophie; DE SMET, Charles; BOON-FALLER, Thierry
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING
; TITLE OF INVENTION: FOR TUMOR REJECTION ANTIGEN PRECURSOR MAGE-C1 AND MAGE-C2
; TITLE OF INVENTION: AND USES THEREOF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 666 Fifth Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/066,281B
; FILING DATE: April 24, 1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/845,528
; FILING DATE: April 25, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mary Anne Schofield
; REGISTRATION NUMBER: 36,669
; REFERENCE/DOCKET NUMBER: LUD 5455.2 US - JEL/MAS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 318-3100

TELEFAX: (212) 752-5958
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4031 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double-stranded
; TOPOLOGY: linear
US-09-066-281B-1

Query Match 39.5%; Score 411.4; DB 4; Length 4031;
Best Local Similarity 74.1%; Pred. No. 3.6e-97;
Matches 608; Conservative 0; Mismatches 166; Indels 47; Gaps 5;
QY 264 TCTTCCCCAGAGTCTCTCAGATTCC---TCCCGAGGTCCTCCCAAGATCTCTCCCA 320
Db TCTTCCCCAGAGTCTCTCAGATTCC---TCCCGAGGTCCTCCCAAGATCTCTCCCA 2577
QY 321 GGGTCTCTCCGAGAGTCTCTCCAGAGTCTCTAGACTCTCTGCTCATCTCCCTCTTTGG 380
Db GAGTTCCTCTGAGAGTCTCTCCAGAGTCTCTGATCTCTCTCTCTCTCTCTCTCTCT 2637
QY 381 GACCCGATTGGATGAGAGTCTCAGCAG---TGAAGAGGAGGATACAGTACTTTGGCATGC 437
Db GAGCCCAATTGATGAGAGTCTCAGCAGCCAGTATGATATACAGTCTCTCAGACAC 2697
QY 438 CTTCGAGAGGATGATCTCTGCTC----- 461
Db CTTCGAGAGGATGATCTCTGCTC----- 2757
QY 462 CAGGTATGCTCTGGATGAAAGTGGCTGAGTTGGTGCAGTTCTCTCTCTCTCTCTCTCT 521
Db CACTTATACACTGGATGAAAGTGGCAGAGTTGGCGCGTTCTCTCTCTCTCTCTCTCT 2817
QY 522 AACAAAGAGCTGTCAAAAGGAGAGATGCTGAGTCTCATCAAGAGTATTAAGGA 581
Db AGTGAAGCAGCTTATCAAAAGGAGAGATGCTGAGTCTCATCAAGAGTATTAAGGA 2877
QY 582 CTATTTTCCCATGATCTTCGGAAGCCCATGAGTTCTAGAGTCTAGAGTCTAGAGTCT 641
Db CTATCTCTCTGATCTTCAGGAAGCCCGTGAAGTCTAGAGTCTAGAGTCTAGAGTCT 2937
QY 642 CTGACTGATATGAGCCCGCAACCATCTCTATTTCTTTGAGAGACATTAAGACTCAC 701
Db CTGAGAGAGTGGACCTG---ATGACTCTCTATGCTTTGTAACACATTAAGACTCAC 2994
QY 702 CTATGAGGAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 761
Db CTCTGAGGGTGTCTGAGTGTGATGAGCAGGCGATGTCCTCAGAACCGCTCTCTCTAT 3054
QY 762 TCTCAGTATGATCTTATAAAGGCGAGTGTCTCCCGAGGAGTCTCTGGGAAGTGT 821
Db TCTGAGTATCATCTTATAAAGGCGAGTGTCTCCCGAGGAGTCTCTGGGAAGTGT 3114
QY 822 GAGTGCATAGGGTGTGTCTGGGAGGAGCAGTCTTATATATATGGGATCCCAAGAGCT 881
Db GAGTGAATAGGGTGTGTCTGGGAGGAGCAGTCTTATATATGGGATCCCAAGAGCT 3174
QY 882 GCTCATTATACATTTGGTGTGAGAGAGTACTGGAGTACCGGAGTGTCCCAAGTGC 941
Db CCTCACTAAAGTTTGGTGTGAGAGAGTACTGGAGTACCGGAGTGTCCCAAGTGTCT 3234
QY 942 TCTTCCAGTCTATGATTTTGTGGGTTCAGAGCCCATTTAGAGGCGCAGAGAG--A 999
Db TCTTCTCTGTATGAGATCTCTTGTGGGTTCAGAGGCTCAITCAGAGTCTATTAGAGGA 3294
QY 1000 AGCTTAGAGTTTATCCAGAGTATCCAGTATCATCCCTA 1040
Db AGTAGTAGAGTTTGTGCGCATGCTAAAGATACCGTCCCTA 3335

RESULT 6

US-08-993-118-9

; Sequence 9, Application US/08993118

; Patent No. 5997872
; GENERAL INFORMATION:
; APPLICANT: LUCAS, Sophie;
; APPLICANT: DE SMET, Charles;
; APPLICANT: BOON-FALLEUR, Thierry
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR
; TITLE OF INVENTION: REJECTION ANTIGEN PRECURSOR MAGE-C1 AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/993,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/845,528
; FILING DATE: April 25, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mary Anne Schofield
; REGISTRATION NUMBER: 36,669
; REFERENCE/DOCKET NUMBER: LUD 5455
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4225 base pairs
; TYPE: nucleic acids
; STRANDEDNESS: double-stranded
; TOPOLOGY: linear
; US-08-993-118-9
Query Match 39.5%; Score 411.4; DB 2; Length 4225;
Best Local Similarity 74.1%; Pred. No. 3.6e-97;
Matches 608; Conservative 0; Mismatches 166; Indels 47; Gaps 5;
QY 264 TCTTCCCCAGAGTCTCTCAGATTCC---TCCCGAGGTCCTCCCAAGATCTCTCCCA 320
Db TCTTCCCCAGAGTCTCTCAGATTCC---TCCCGAGGTCCTCCCAAGATCTCTCCCA 2787
QY 321 GGGTCTCTCCGAGAGTCTCTCCAGAGTCTCTAGACTCTCTGCTCATCTCTCTTTGG 380
Db GAGTTCCTCTGAGAGTCTCTCCAGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2788
QY 381 GACCCGATTGGATGAGAGTCTCAGCAG---TGAAGAGGAGGATACAGTACTTTGGCATGC 437
Db GAGCCCAATTGATGAGAGTCTCAGCAGCCAGTATGATATACAGTCTCTCAGACAC 2907
QY 438 CTTCGAGAGGATGATCTCTGCTC----- 461
Db CTTCGAGAGGATGATCTCTGCTC----- 2908
QY 462 CAGGTATGCTCTGGATGAAAGTGGCTGAGTTGGTGCAGTTCTCTCTCTCTCTCTCTCT 521
Db CACTTATACACTGGATGAAAGTGGCAGAGTTGGCGCGTTCTCTCTCTCTCTCTCTCT 2968
QY 522 AACAAAGAGCTGTCAAAAGGAGAGATGCTGAGCAGTCTCATCAAGAGTATTAAGGA 581
Db AGTGAAGCAGCTTATCAAAAGGAGAGATGCTGAGCAGTCTCATCAAGAGTATTAAGGA 3087
QY 582 CTATTTTCCCATGATCTTCGGGAAAGCCCATGAGTTCATAGAGCTAATTTTTCGATTGC 641
Db CTATTTTCCCATGATCTTCGGGAAAGCCCATGAGTTCATAGAGCTAATTTTTCGATTGC

ADDRESSEE: Fulbright & Jaworski L.L.P.
 STREET: 666 Fifth Avenue
 CITY: New York City
 STATE: New York
 COUNTRY: USA
 ZIP: 10103
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
 COMPUTER: IBM PS/2
 OPERATING SYSTEM: PC-DOS
 SOFTWARE: Wordperfect
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/066,281B
 FILING DATE: April 24, 1998
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/845,528
 FILING DATE: April 25, 1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Mary Anne Schofield
 REGISTRATION NUMBER: 36,669
 REFERENCE/DOCKET NUMBER: LUD 5455.2 US - JEL/MAS
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 318-3100
 TELEFAX: (212) 752-5958
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 4225 base pairs
 TYPE: nucleic acids
 STRANDEDNESS: double-stranded
 TOPOLOGY: linear
 US-09-066-281B-9

Query Match 39.5%; Score 411.4; DB 4; Length 4225;
 Best Local Similarity 74.1%; Pred. No. 3.6e-97;
 Matches 608; Conservative 0; Mismatches 166; Indels 47; Gaps 5;

QY 264 TCTTCCCGAGAGTCTCTGAGATTCC---TCCCAGGGTCTCCAGAGATCTCTCCCA 320
 DB 2728 TCTTCCCGAGAGTCTCTGAGATTCC---TCCCAGGGTCTCCAGAGATCTCTCCCA 2787
 QY 321 GGGTCTCTCCGAGAGTCTCTCCAGAGTCTCTGAGATTCTCTGAGATTCTCTGAG 380
 DB 2788 GAGTTCCTCCGAGAGTCTCTCCAGAGTCTCTGAGATTCTCTGAGATTCTCTGAG 2847
 QY 381 GACCGATTGATGAGAGTCCAGAG---TGAAGAGGAGATACAGTCTTGGCATGC 437
 DB 2848 GAGCCGATTGATGAGAGTCCAGAG---TGAAGAGGAGATACAGTCTTGGCATGC 2907
 QY 438 CTTGCCAGAAAGTGAATCCTTGGC----- 461
 DB 2908 CTTGCTAGAGAGTGAATCCTTGCAGAGAGGAGTCTTGAATGAGAGCGAGCCCTTGT 2967
 QY 462 CAGGTATGCCCTGGATGAAAGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 521
 DB 2968 CACTTATACACTGATGAAAGAGTGGAGAGTGGGCGGTTCTTCTCTCAATATCA 3027
 QY 522 AACAAAGAGCCTGTCAAAAGGAGAGATGCTGAGCAGTGTATCAAGAGATATAAGGA 581
 DB 3028 AGTGAAGAGCCTGTCAAAAGGAGAGATGCTGAGCAGTGTATCAAGAGATATAAGGA 3087
 QY 582 CTATTTTCCCATGATCTTGGGAAAGCCCATGAGTCTATAGAGTGAATTTTGGCATGC 641
 DB 3088 CTACTTTCTGTGATCTTCAAGAAAGCCGAGTCTATAGAGATCTTTTGGCATTT 3147
 QY 642 CTTGACTGATATGAGCCCGACACCACTCTTATTTCTTTTGAAGACATTTAGACCTTAC 701
 DB 3148 CTTGAGAGAGTGGACCTG---ATGACTCTTATGTTTGAAGACATTTAGACCTTAC 3204
 QY 702 CTATGAGGAGCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 761
 DB 3205 CTTGAGGGGTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3264

QY 762 TCTCAGTATGATCTTCAATAAGGCGAGCTGTGTCTCCGAGGAGGTCTATCTGGGAAGTGT 821
 DB 3265 TCTGAGTATCACTTCTCATAAAGGCGACCTATGCTCTGAGGAGGTCTATCTGGGATGTCT 3324
 QY 822 GAGTCAATAGGGGTGTGTCTGGGAGGAGCACATTTATATATGGGATCCCAAGAAAGCT 881
 DB 3325 GAGTGAATAGGGGTGTGTCTGGGAGGAGCACATTTGCTTTGGGAGCCCAAGGAGCT 3384
 QY 882 GCTCACTATACATTTGGTTCAGAGAAAGTACCTTGGAGTACCGGAGGTGCCCAAGTGC 941
 DB 3385 CTTCACTAAAGTTTGGTTCAGAGAACATTTACCTAGAGTACCGGAGGTGCCCAACTCTTC 3444
 QY 942 TCTCCACGTTATGAATTTTGTGGGTCCAGAGCCCATTCAGAGCCAGCAAGAG--A 999
 DB 3445 TCTCTCTGTTACGAATTCCTGTGGGTCCAGAGCTCATTCAGAGTCTATTAAGAGGAA 3504
 QY 1000 AGTCTTAGAGTTTATCCAGCTATCCAGTATCATCCCTA 1040
 DB 3505 AGTAGTAGATTTTGGCCATGCTAAAGAAATACCCGTCCTA 3545

RESULT 9

US-09-061-709-1

; Sequence 1, Application US/09061709B
 ; Patent No. 6297364
 ; GENERAL INFORMATION:
 ; APPLICANT: Chen, Yao-Tseng
 ; APPLICANT: Gure, Ali
 ; APPLICANT: Tsang, Solam
 ; APPLICANT: Stockert, Elisabeth
 ; APPLICANT: Jager, Elke
 ; APPLICANT: Knuth, Alexander
 ; APPLICANT: Old, Lloyd J.
 ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated
 ; TITLE OF INVENTION: Antigen, The Antigens Per Se, And Uses Thereof
 ; FILE REFERENCE: LUD 5538
 ; CURRENT APPLICATION NUMBER: US/09/061,709B
 ; CURRENT FILING DATE: 1998-04-17
 ; NUMBER OF SEQ ID NOS: 8
 ; SEQ ID NO 1
 ; LENGTH: 4265
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 US-09-061-709-1

Query Match 39.5%; Score 411.4; DB 3; Length 4265;
 Best Local Similarity 74.1%; Pred. No. 3.6e-97;
 Matches 608; Conservative 0; Mismatches 166; Indels 47; Gaps 5;

QY 264 TCTTCCCGAGAGTCTCTGAGATTCC---TCCCAGGGTCTCCAGAGATCTCTCCCA 320
 DB 2758 TCTTCCCGAGAGTCTCTGAGATTCTCTGAGATTCTCTGAGATTCTCTGAGATTCTCTGAG 2817
 QY 321 GGGTCTCTCCGAGAGTCTCTCCAGAGTCTCTGAGATTCTCTGAGATTCTCTGAGATTCTCTGAG 380
 DB 2818 GAGTTCCTCCGAGAGTCTCTCCAGAGTCTCTGAGATTCTCTGAGATTCTCTGAGATTCTCTGAG 2877
 QY 381 GACCGATTGATGAGAGTCCAGAG---TGAAGAGGAGATACAGTCTTGGCATGC 437
 DB 2878 GAGCCGATTGATGAGAGTCCAGAG---TGAAGAGGAGATACAGTCTTGGCATGC 2937
 QY 438 CTTGCCAGAAAGTGAATCCTTGGC----- 461
 DB 2938 CTTGCTAGAGAGTGAATCCTTGCAGAGAGGAGTCTTGAATGAGAGCGAGCCCTTGT 2997
 QY 462 CAGGTATGCCCTGGATGAAAGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 521
 DB 2998 CACTTATACACTGATGAAAGAGTGGAGAGTGGGCGGTTCTTCTCTCAATATCA 3057
 QY 522 AACAAAGAGCCTGTCAAAAGGAGAGATGCTGAGCAGTGTATCAAGAGATATAAGGA 581
 DB 3058 AGTGAAGAGCCTGTCAAAAGGAGAGATGCTGAGCAGTGTATCAAGAGATATAAGGA 3117

381	QY	GA	CCCGATTGGA	TGAGGAGTCCAG	CAG---TGAA	GAGGAGGATACAG	CTACTTGG	CA	TGC	437
2878	Db	GAG	CCCATTCAGT	GAAGATCCAG	CAGCCCA	GTAGATGAATATACAAG	TTCCTCAG	CA	CAC	2937
438	QY	CTT	GCACAGAA	AGTGAATCCT	TCCC-----					461
2938	Db	CTT	GTAGAGAGT	GATTCCTTGAC	CACAGCGAGTCCTTGAT	GAGAGCGGAGC	CCCTTGT			2997
462	QY	CAG	GTATGCCC	TGGATGAAA	AGTGGCTGAGT	TGTCAGTTTCT	TCTCCTCAAA	TATCA		521
2998	Db	CAC	TTATACACT	TGGATGAAA	AGTGGAGTGG	CGCGGTTCTTCT	TCTCCTCAAA	TATCA		3057
522	QY	AAC	AAAAGAGC	CTGTCACAA	AGCAGAGATGCTG	CAGACTCTCAT	CACAGAGTATA	AAGA		581
3058	Db	AGT	GAAGACGC	CTATCACA	AGCCAGAGATGCTG	ACGAATGTATC	CACAGCGTAC	CACGG		3117
582	QY	CTA	TTTTCCCAT	GAFTCTT	CGGGAAGCC	ATGAGTTCTATAG	AGCTAAATTTTGG	CA	TGC	641
3118	Db	CTA	CTTTCTGT	GAATCTT	CAGAAAGCCG	TGAGTTCATAG	ATACATTTTGG	CA	TTT	3177
642	QY	CCT	GACTGAT	TGACCCCG	CAACCATCTCTATTTCTTT	GAGACATTTAG	ACCTCAC			701
3178	Db	CTG	TAGAAGT	TGGACCC	CTG---ATG	ACTCTATGTCTTTG	TAAACAATTAG	ACCTCAC		3234
702	QY	CTA	TAGGGAAG	CCCTGATT	TGATGATCAG	GGGCATGCCCA	GAACCTGTCTCC	TGATTTTAT		761
3235	Db	CTC	TAGGGGT	GTCGTAGT	TGATGACG	GGGCATGTCC	CAGACCGCCT	CTCTGATTTAT		3294
762	QY	TCT	CAGTATGAT	CTTCATAA	AGGGGAGCTGTG	TCCCCGAGAGGT	TCATCTGGG	AGTGT		821
3295	Db	TCT	GAGTATCAT	CTTTCAT	TAAGGGC	ACTATGCCCTCTG	AGAGGTTCATCTGG	ATGTGCT		3354

822	Qy	GAGTGC	CAATAGGGG	TGCTGCTGGG	AGGAGCACTTTATATATGGG	ATCCAGAA	AGCT	881
3355	Db	GAGTGG	AATAGGGG	TGCGTCTGGG	AGGAGCACTTTTGCCTTGGG	AGGCCACGGG	AGCT	3414
882	Qy	GCTCACT	ATACATTTGGG	TGCACAGAAAGT	CTCGAGTACCGG	AGGTGCCCA	CAGTGC	941
3415	Db	CCTCACT	AAAGTTTGGG	TGCAGGAACTTACTTAG	AGTACCGG	AGGTGCCCACTCTTC		3474
942	Qy	TCCTCC	ACGTTATGAAATTTTGTGGG	TCCAAAGAGCCCA	TTCAGAGG	CCCAAGAG	--A	999
3475	Db	TCCTCCT	GTTCAGAAATTCCTGTGGG	TCCAAAGAGCTCATTC	CAGAAGT	CATTAAGAG	AA	3534
1000	Qy	AGTCTT	AGAGTTTTTATCCAA	AGCTATCCAG	TATCCCTTA			1040
3535	Db	AGTAGT	AGAGTTTTTGGC	ATGCTAAAGAA	TACCGTCCCTTA			3575

RESULT 11
US-08-724-774B-3
; Sequence 3, Application US/08724774B
; Patent No. 5908778

TITLE OF INVENTION: Uses Thereof
 NUMBER OF SEQUENCES: 5
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Felfe & Lynch
 STREET: 805 Third Avenue
 CITY: New York City
 STATE: New York
 COUNTRY: USA
 ZIP: 10022
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
 COMPUTER: IBM

[illegible]

874	CTTTGTTGTTTAGTGAGCCCTCCGAGTGCATGCTGGTCTTTTGGCAATTCATGATAAGG	933
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934	AAGTGGATCCCACTGGCGACCTCCCTTTGTCTTGTACCTCCCTGGGCTCACTTATGATG	993
710	GAAGCCCTGATTGATGACACAGGCGATGCCRAGAAGCTGTCCTGATCTTATTTCTCAGTA	769
994	GGATGCTGAGTGATGTCCAGAGCATGCCAAGATGGCAATTCATCACTTATCCTAAGCA	1053
770	TGATCTTCATAAAGGCGAGCTGTGTCCCGAGGAGGTCACTCGGGAAGTGTGTAGTGCAG	829
1054	TAATCTTCATAGAGGGCTACTGCAACCTCGAGGAGGTCACTCGGAAGCACTGATATGA	1113
830	TAGGGGTGTGCTGGGAGGAGCACATTATATATGGGATCCCGAAGAGTGTCTCACTA	889
1114	TGGGGCTGTATGATGGGATGGAGCACCTCATTTATGGGGAGCCAGGAAGTGTCTACCC	1173
890	TACATTGGGTGCAGAGAAAGTACCTGGAGTACCGGGAGGTGCCCAACAGATGCTCCTCCAC	949
1174	AAGATTGGGTGCAGAAAACTACCTGAGTACCGGAGGTGCCCTGGCAGATGATCCTGCAC	1233
950	GTTATGAATTTTGTGGGGTCCAAAGAGCCCATTCAGAGGCCGACGAGAGTCT	1004
1234	GGTATGAGTTCTGTGGGGTCCAGGGCTCATGCTGAAATTTAGGAAGATGAGTCT	1288

RESULT 13
 US-09-382-855-3
 ; Sequence 3, Application US/09382855
 ; Patent No. 6174692
 ; GENERAL INFORMATION:
 ; APPLICANT: Rimoldi, Donata; Jongeneel, Victor; Coulie, Pierre;
 ; APPLICANT: Cerrottnin, Jean-Charles; Carrel, Stefan; Reed, Daryl
 ; TITLE OF INVENTION: MAGE-10 ENCODING cDNA, The Tumor Rejection
 ; TITLE OF INVENTION: Antigen Precursors Mage-10, Antibodies Specific To The Molecule,
 ; NUMBER OF SEQUENCES: 5
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Fulbright & Jaworski LLP
 ; STREET: 666 Fifth Avenue
 ; CITY: New York City
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10103

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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/382,855
FILING DATE: 25-August-1999
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/089,595
FILING DATE: 02-June-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/724,774
FILING DATE: 03-October-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Schofield, Mary Anne
REGISTRATION NUMBER: 36,669
REFERENCE/DOCKET NUMBER: LUD 5457.2 DIV - JEL/MAD
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2559 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

Query Match	32.9%	Score 342.2	DB 3	Length 2559
Best Local Similarity	69.7%	Pred. No. 2.6e-79		
Matches 498	Conservative 0	Mismatches 199	Indels 18	Gaps 2
Qy	308	AGATCTCTCCCGAGGGCTCTCCG	CAGAGTGCTCTCCCGAGAGTCCCTAGAC	TCCTGAGTCCCTGCTCAT 367
Db	574	AGGTTCTGCTGATGATGAGACCA	AAATCTCTCCCGAGTGCTCAGAT	AGCCTGCTGCTCT 633
Qy	368	CCC-----CTCTTTTGTGGAC	CCGATTTGGATGAGGAGTCAGAC	AGTGAAG 412
Db	634	CCCCCTCGGTGCTTGCCTTCCAT	TAGATCAATCTGATGAGGGCTC	CAGAGCCAA 693
Qy	413	AGAGGA---TACAGCTACTTGG	CATGCCCTTGCAGAAAGTGAATCT	TGCCAGGTATG 469
Db	694	AGGAGGAGATCCAAGCACCCCT	CACAGTCTGCAGACAGTGAGTCT	TATACCCAGAA 753
Qy	470	CCCTGGATGAAAGGTGGCTGAG	TGGTGGTGCAGTTCTTCTCCTCA	ATATCAACAAAG 529
Db	754	AGATAGATGAAAGGTGACTGAT	TGGTGCAGTTCTGCTCTTCAAG	TATCAATGAAG 813
Qy	530	AGCCTGTCAAAAGGCAGAGATG	CTGACGACTGTCAAGAAAGTAA	AGGACTATTTC 589
Db	814	AGCGATCAAAAGGCAGAAATAC	TGGAGAGTGTCTAAAAAATAT	TGAAGACCACT 873
Qy	590	CCATGATCTTCGGGAAGCCCAT	GAGTTCATAGAGCTAAATTTT	TGGCAATTCGCTGACTG 649
Db	874	CTTTGTTGTTTAGTGAAGCCT	CCAGTGCATGCTGGTCTTTGG	CAATGTATGAAG 933
Qy	650	ATATGACCCCGACACCACTCT	TATTTCTTGAAGACATTTAGAC	CTCACCTATGAGG 709
Db	934	AAATGGATCCCATGSGCCACT	CTCTTGTCTTGTCACTCCCTG	GGGCTCACCTATGATG 993
Qy	710	GAAGCTGATTGATGACCGGG	CATGCCAAGAACTGTCTCTG	ATTTCTTCTAGTA 769
Db	994	GGATGCTGAGTGATGTCCAG	AGCATGCCAAGACTGGCATTT	CTCATACTTATCCTAAGCA 1053
Qy	770	TGATCTTCTAAAGGCAGCTGT	GTCCCGAGAGGTCACTCGG	AAGTGTTCAGTGCAA 829
Db	1054	TAACTTTATAGAGGCTACTG	CACCCCTGAGAGGTCACTCGG	AAGCACTGAATATGA 1113
Qy	830	TAGGGTGTGTGCTGGGAGG	AGCACTTTATATATGGGAT	CCACAAAAGCTCTCCACTA 889
Db	1114	TGGGGCTGATGATGGATG	AGCACCTCATTTATGGGAG	CCCGAGAGTGTCTCACCC 1173
Qy	890	TACATTTGGGTGAGAAAGTA	CACTTGGAGTACCGGAGGT	GCACCAACAGTGTCTCTCCAC 949
Db	1174	AAGATTTGGGTGAGGAAAA	CTACCTGGAGTACCGGCAG	TGTGCTTGCAGTATCTTCGCAC 1233
Qy	950	GTTATGAATTTTGTGGGT	TCCAAGGCCATTTACAG	CCCGAGCCAGCAAGAGTCT 1004
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RESULT 14
US-09-183-714B-3
; Sequence 3, Application US/09183714B
; Patent No. 6221593
; GENERAL INFORMATION:
; APPLICANT: Boon-Falleur, Thierry
; APPLICANT: Brasseur, Francis
; APPLICANT: Rimoldi, Donata
; APPLICANT: De Plaen, Etienne
; TITLE OF INVENTION: Method for Determining Cancer by Determining Expression
; TITLE OF INVENTION: of MAGE-10
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/09/183,714B
; CURRENT FILING DATE: 1998-10-30
; PRIOR APPLICATION NUMBER: US 08/724,774
; PRIOR FILING DATE: 1996-10-03
; NUMBER OF SEQ ID NOS: 7
; SEQ ID NO. 3

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Qy	830	TAGGGGTGTGCTGGGAGGACCTTTATATATGGGGATCCCAAGAGCTGCTCACTA	889
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Qy	890	TACATTTGGGTGCAGAGAAAGTACCTGGAGTACCGGAGGTGCCCAACAGTGTCTCTCCAC	949
Db	1174	AAGATTGGGTGCAGGAAACTACCTGGAGTACCGGAGGTGCCCTGGCAGTGATCCTGCAC	1233
Qy	950	GTATCAATTTTGTGGGTCCAGAGCCCATTCAGAGGCCCAAGAGAGAGTCT	1004
Db	1234	GGTATGAGTTTCTGTGGGTCCAGGGCTCATGCTGAATTAGGAAGATGAGTCT	1288

Search completed: February 19, 2004, 20:01:01
Job time : 104 secs

XX 01-AUG-1997; 97US-0905134.
XX (GBST) GENSET.
XX
XX Duclert A, Dumas Milne Edwards J, Lacroix B;
XX WPI; 1999-153784/13.
XX P-PSDB; AAY12217.
XX
XX New nucleic acids encoding human secreted proteins - obtained from
XX cDNA libraries prepared from kidney, fetal kidney, dystrophic
XX muscle, muscle and heart tissue
XX
XX Claim 1; Page 389; 62pp; English.
XX
XX AAX40826 to AAX41093 represent 5' expressed sequence tags (ESTs) for
XX human secreted proteins, and encode the proteins given in AAY01602 and
XX AAY11994 to AAY12260, respectively. The proteins given represent the
XX signal peptide and an N-terminal fragment of a secreted protein. The
XX nucleic acid sequences can be used for producing secreted human gene
XX products. They can also be used to develop products for diagnosis and
XX therapy. The proteins obtained may have cytokine activity, cell
XX proliferation/differentiation activity, haematopoiesis regulating
XX activity, tissue growth regulating activity, reproductuve hormone
XX regulating activity, chemotactic/chemokinetic activity, haemostatic and
XX thrombolytic activity, receptor/ligand activity, anti-inflammatory
XX activity, tumour inhibition activity or other activities. The products
XX can be used in forensic, gene therapy and chromosome mapping procedures.
XX The sequences can also be used for obtaining corresponding promoter
XX sequences. The nucleic acids encoding the signal peptide can be used
XX for directing extracellular secretion of a polypeptide or the insertion
XX of a polypeptide into a membrane, or importing a polypeptide into
XX a cell.
XX
XX Sequence 321 BP; 72 A; 96 C; 84 G; 68 T; 1 other;
SQ
Query Match 87.6%; Score 18.4; DB 20; Length 321;
Best Local Similarity 95.0%; Pred. No. 1.8e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TCATCCTCACCCCTTGCTCTC 20
Db 107 TCATCCTCATCCTTGCTCTC 126
RESULT 15
AAH93187
ID AAH93187 standard; DNA; 700 BP.
AC AAH93187;
XX
XX 09-OCT-2001 (first entry)
XX
XX Human inflammatory bowel disease related gene fragment IGR3480a.
XX
XX Human; inflammatory bowel disease; Crohn's disease; ulcerative colitis;
XX single nucleotide polymorphism; SNP; chromosome 19p13; paternity test;
XX chromosome 5q31-33; forensic test; gene therapy; ds.
XX
XX Homo sapiens.
XX
XX WO200142511-A2.
XX
XX 14-JUN-2001.
XX
XX 11-DEC-2000; 2000WO-US33632.
XX
XX 10-DEC-1999; 99US-0170257.
XX 10-APR-2000; 2000US-0196046.
XX
XX (WHED) WHITEHEAD INST BIOMEDICAL RES.
XX (ELLI-) ELLIPSIS BIOTHERAPEUTICS CORP.

XX Daly M, Hudson TJ, Lander ES, Rioux J, Siminovitch K;
XX WPI; 2001-367874/38.
XX
XX Testing for the presence of polymorphisms associated with inflammatory
XX bowel disease, using a hybridization assay -
XX
XX Disclosure; Page 431; 463pp; English.
XX
XX The present invention describes a method for detecting the presence of
XX polymorphisms associated with inflammatory bowel diseases such as
XX ulcerative colitis and Crohn's disease. The methods can be used to detect
XX the presence of genetic polymorphisms associated with inflammatory bowel
XX disease and correlating their occurrence with disease states. They may be
XX used in this way for phenotypic correlations, forensics, paternity
XX testing, medicine and genetic analysis. The present sequence is a gene
XX containing a polymorphic site described in the exemplification of the
XX invention.
XX
XX Sequence 700 BP; 145 A; 174 C; 226 G; 151 T; 4 other;
SQ
Query Match 87.6%; Score 18.4; DB 22; Length 700;
Best Local Similarity 95.0%; Pred. No. 1.9e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2 CATCCTCACCCCTTGCTCTCA 21
Db 420 CAGCCTCACCCCTTGCTCTCA 439
Search completed: February 19, 2004, 21:28:32
Job time : 177.5 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 20:01:08 ; Search time 1596.5 Seconds
(without alignments)
538.116 Million cell updates/sec

Title: US-10-085-108-21_COPY_175_195

Perfect score: 21

Sequence: 1 TCATCCTCACCTTGTCCTCA 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 20454813386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl.*

1: gb ba.*

2: gb htg.*

3: gb in.*

4: gb om.*

5: gb ov.*

6: gb pat.*

7: gb ph.*

8: gb pl.*

9: gb pr.*

10: gb ro.*

11: gb sts.*

12: gb sy.*

13: gb un.*

14: gb vi.*

15: em ba.*

16: em fun.*

17: em hum.*

18: em in.*

19: em mu.*

20: em om.*

21: em or.*

22: em ov.*

23: em pat.*

24: em ph.*

25: em pl.*

26: em ro.*

27: em sts.*

28: em un.*

29: em vi.*

30: em htg hum.*

31: em htg inv.*

32: em htg other.*

33: em htg mus.*

34: em htg pln.*

35: em htg rod.*

36: em htg mam.*

37: em htg vrt.*

38: em sy.*

39: em htgo hum.*

40: em htgo mus.*

41: em htgo other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	21	100.0	124497	9	HS232G24	AL022152 Human DNA
2	20	95.2	1677	5	AF136525	AF136525 Gambusia
3	19.4	92.4	164601	2	AC125000	AC125000 Mus muscu
4	18.4	92.4	174412	9	AC009413	AC009413 Homo sapi
5	19.4	92.4	194991	2	AC122284	AC122284 Mus muscu
6	19	90.5	110807	10	AF003184	AF003184 Mus muscu
7	19	90.5	127623	2	AC133171	AC133171 Mus muscu
8	19	90.5	168135	2	AC120654	AC120654 Rattus no
9	19	90.5	263262	2	AC095135	AC095135 Rattus no
10	19	90.5	276523	10	AC012382	AC012382 Mus muscu
11	18.4	87.6	321	6	BD077670	BD077670 5'EST of
12	18.4	87.6	609	11	AU028771	AU028771 Rattus no
13	18.4	87.6	700	6	AX183446	AX183446 Sequence
14	18.4	87.6	993	8	VFABAMRCC	VFABAMRCC Broad bean
15	18.4	87.6	1227	9	AB020881	AB020881 Homo sapi
16	18.4	87.6	1246	6	E38387	E38387 Transcripti
17	18.4	87.6	1257	9	BC017559	BC017559 Homo sapi
18	18.4	87.6	1283	9	AF130312	AF130312 Homo sapi
19	18.4	87.6	1287	9	AF136570	AF136570 Homo sapi
20	18.4	87.6	1320	9	BC000381	BC000381 Homo sapi
21	18.4	87.6	2252	9	BC033499	BC033499 Homo sapi
22	18.4	87.6	2522	9	AK093365	AK093365 Homo sapi
23	18.4	87.6	36774	2	AC019572	AC019572 Drosophil
24	18.4	87.6	45005	9	AC004511	AC004511 Homo sapi
25	18.4	87.6	88442	10	AC005526	AC005526 Mus muscu
26	18.4	87.6	104824	9	HS73822	HS73822 Human DNA
27	18.4	87.6	121493	10	AL645609	AL645609 Mouse DNA
28	18.4	87.6	150816	2	AC119532	AC119532 Rattus no
29	18.4	87.6	158387	2	AC095020	AC095020 Bos tauru
30	18.4	87.6	163569	2	AC023293	AC023293 Homo sapi
31	18.4	87.6	164946	9	AP000553	AP000553 Homo sapi
32	18.4	87.6	164974	3	AC011249	AC011249 Drosophil
33	18.4	87.6	166447	9	AC018751	AC018751 Homo sapi
34	18.4	87.6	168190	9	AC093841	AC093841 Homo sapi
35	18.4	87.6	169237	9	AC009516	AC009516 Homo sapi
36	18.4	87.6	169500	2	AC132291	AC132291 Mus muscu
37	18.4	87.6	170776	9	AL139087	AL139087 Human DNA
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39	18.4	87.6	174479	2	AC135613	AC135613 Pan trogl
40	18.4	87.6	178405	9	AC034216	AC034216 Homo sapi
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42	18.4	87.6	183580	9	AL160253	AL160253 Human DNA
43	18.4	87.6	186135	2	AC129433	AC129433 Rattus no
44	18.4	87.6	186582	2	AC129249	AC129249 Rattus no
45	18.4	87.6	191704	2	AC139737	AC139737 Canis fam

ALIGNMENTS

RESULT 1

HS232G24

LOCUS

DEFINITION

HS232G24

124497 bp

DNA

linear

PRI 09-MAR-2002

Human DNA sequence from clone RP6-232G24 on chromosome Xq27.1-27.3
Contains the gene for the melanoma antigen gene family protein,
MAGEC3 and the MAGEC1 gene for melanoma antigen, family C.1,
complete sequence.

ACCESSION

AL022152

VERSION

AL022152.1

KEYWORDS

HTG; MAGEC1; MAGEC3.

SOURCE

Homo sapiens

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 124497)

AUTHORS TITLE JOURNAL

COMMENT

Bird,C.
Direct Submission
Submitted (08-MAR-2002) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
hamquerry@sanger.ac.uk Clone requests: clonerequests@sanger.ac.uk
On May 22, 1998 this sequence version replaced gi:2969932.
During sequence assembly data is compared from overlapping clones.
Where differences are found these are annotated as variations
together with a note of the overlapping clone name. Note that the
variation annotation may not be found in the sequence submission
corresponding to the overlapping clone, as we submit sequences with
only a small overlap as described above.
This sequence was finished as follows unless otherwise noted: all
regions were either double-stranded or sequenced with an alternate
chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by at least
one plasmid subclone or more than one M13 subclone; and the
assembly was confirmed by restriction digest. The following
abbreviations are used to associate primary accession numbers given
in the feature table with their source databases: Em: EMBL; Sw:
SWISSPROT; Tr: TREMBL; Wp: WORMPEP; Information on the WORMPEP
database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence
was generated from part of bacterial clone contigs of human
Chromosome X, constructed by the Sanger Centre Chromosome X Mapping
Group. Further information can be found at
http://www.sanger.ac.uk/HGP/ChrX
RP6-232G24 is from the library RP6-6 constructed by the group of
Pieter de Jong. For further details see
http://www.chori.org/bacpac/home.htm
VECTOR: pPAC4
This sequence is the entire insert of clone RP6-232G24 The true
right end of clone RP3-326L12 is at 82755 in this sequence.

FEATURES

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Em:BG480822"
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/note="match: proteins: Sw:O60732 Tr:Q95529 Sw:Q9BFI
Tr:Q96D45 Tr:Q9N2C Tr:Q9NPH7 Sw:Q9Y5V3"
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misc_feature

CDS

Lindblad-Toh, K., Liu, G., Lui, A., Mabbitt, R., Maclean, C.,
 Macdonald, P., Major, J., Manning, J., Matthews, C., McCarthy, M.,
 Medd, J., Menus, L., Mihova, T., Mlewa, V., Murphy, T., Naylor, J.,
 Nguyen, C., Nicol, R., Norbu, C., O'Connor, T., O'Donnell, P.,
 O'Neill, D., Oliver, J., Peterson, K., Phunkhang, P., Pierre, N.,
 Rachupka, A., Ramasamy, U., Raymond, C., Retta, R., Rise, C., Rogov, P.,
 Roman, J., Schauer, S., Schupbach, R., Seaman, S., Severy, P., Smith, C.,
 Spencer, B., Stange-Thomann, N., Stojanovic, N., Stubbs, M.,
 Talamas, J., Tesfaye, S., Theodore, J., Topham, K., Travers, M.,
 Vassiliev, H., Venkataraman, V., Viel, R., Vo, A., Wilson, B., Wu, X.,
 Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.
 Direct Submission
 Submitted (27-MAR-2003) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 On Mar 27, 2003 this sequence version replaced gi:28191558.
 All repeats were identified using RepeatMasker:
 Smith, A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html

TITLE
 JOURNAL
 COMMENT

----- Genome Center
 Center: Whitehead Institute/ MIT Center for Genome Research
 Center code: WIBR
 Web site: http://www-seq.wi.mit.edu
 Contact: sequence.submissions@genome.wi.mit.edu
 ----- Project Information
 Center project name: L25636
 Center clone name: 409_L_6

----- Summary Statistics
 Sequencing vector: Plasmid; n/a; 100% of reads
 Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: Phrap; version 0.960731
 Consensus quality: 162739 bases at least Q40
 Consensus quality: 163377 bases at least Q30
 Consensus quality: 163717 bases at least Q20
 Insert size: 153000; agarose-fp
 Insert size: 163901; sum-of-contigs
 Quality coverage: 11.4 in Q20 bases; agarose-fp
 Quality coverage: 10.7 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
 * consists of 8 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

* 1
 * 5870: contig of 5870 bp in length
 * 5871
 * 5970: gap of 100 bp
 * 5971
 * 9585: contig of 3615 bp in length
 * 9586
 * 9586: gap of 100 bp
 * 9586
 * 13730: contig of 4045 bp in length
 * 13731
 * 13830: gap of 100 bp
 * 13831
 * 32078: contig of 18248 bp in length
 * 32079
 * 32178: gap of 100 bp
 * 32179
 * 78827: contig of 46649 bp in length
 * 78828
 * 78927: gap of 100 bp
 * 78928
 * 106867: contig of 27940 bp in length
 * 106868
 * 106967: gap of 100 bp
 * 106968
 * 136363: contig of 29396 bp in length
 * 136364
 * 136463: gap of 100 bp
 * 136464
 * 164601: contig of 28138 bp in length.

FEATURES
 source

1. .164601
 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /db_xref="taxon:10090"
 /clone="RP24-409L6"
 /clone_lib="RP24-409L6"
 /clone_lib="RP24-409L6" Male Mouse BAC"

misc_feature
 1. .5870
 /note="assembly_fragment
 clone end:SP6
 vector side:left"
 misc_feature
 5971. .9585

misc_feature
 /note="assembly_fragment"
 9586. .13730
 /note="assembly_fragment"
 13831. .32078
 /note="assembly_fragment"
 32179. .78827
 /note="assembly_fragment"
 78928. .106867
 /note="assembly_fragment"
 106968. .136363
 /note="assembly_fragment"
 136464. .164601
 /note="assembly_fragment"
 clone end:T7
 vector side:right"

BASE COUNT 45950 a 37019 c 36895 g 44037 t 700 others
 ORIGIN

Query Match 92.4%; Score 19.4; DB 2; Length 164601;
 Best Local Similarity 95.2%; Pred. No. 3e+02;
 Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCTCTCACCTTGTCTCA 21

Db 2662 TCCTCTCTCACCTTGTCTCA 2682

RESULT 4

AC009413/c

LOCUS AC009413 174412 bp DNA linear PRI 07-OCT-2000
 DEFINITION Homo sapiens BAC clone RP11-459K11 from 2, complete sequence.

AC009413

AC009413.2 GI:10716654

HTG.

SOURCE Homo sapiens (human)

ORGANISM

Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 174412)

Sulston, J.E. and Waterston, R.

Toward a complete human genome sequence

Genome Res. 8 (11), 1097-1108 (1998)

99063792

PUMED 9847074

REFERENCE 2 (bases 1 to 174412)

Le, T., Drone, K. and Du, F.

The sequence of Homo sapiens BAC clone RP11-459K11

Unpublished

3 (bases 1 to 174412)

Waterston, R.H.

Direct Submission

Submitted (21-AUG-1999) Genome Sequencing Center, Washington

University School of Medicine, 4444 Forest Park Parkway, St. Louis,

MO 63108, USA

4 (bases 1 to 174412)

Waterston, R.

Direct Submission

Submitted (07-OCT-2000) Department of Genetics, Washington

University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA

On Oct 7, 2000 this sequence version replaced gi:5757519.

COMMENT

----- Genome Center

Center: Washington University Genome Sequencing Center

Center code: WUGSC

Web site: http://genome.wustl.edu/gsc

Contact: sapiens@wustl.edu

----- Summary Statistics

Center project name: H_NH0459K11

NOTICE: This sequence may not represent the entire insert of this
 clone. It may be shorter because we only sequence overlapping
 clone sections once, or longer because we provide a small overlap
 between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu/gsc>

SOURCE INFORMATION:

The RPCI-11 human BAC library was made from the blood of one male donor, as described by Osoegawa, K., Woon, P. Y., Zhao, B., Frengen, E., Tateo, M., Catanese, J. J., and de Jong, P. J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. *Genomics* 51:1-8. The clone may be obtained either from Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at the Roswell Park Cancer Institute (<http://bacpac.med.buffalo.edu>)

VECTOR: pBACes.6

NEIGHBORING SEQUENCE INFORMATION:

The clone sequenced to the right is RP11-478M12, 200 base pair overlap. Actual start of this clone is at base position 1 of RP11-459K11; actual end is at base position 174219 of RP11-459K11.

FEATURES

source	1. 174412	/organism="Homo sapiens"	
		/mol_type="genomic DNA"	
		/db_xref="taxon:9606"	
		/chromosome="2"	
		/map="2"	
		/clone="RP11-459K11"	
		/clone_lib="RPCI-11"	
repeat_region	81..885	/rpt_family="MER21-group"	
repeat_region	895..1334	/rpt_family="MAlR"	
repeat_region	1491..1807	/rpt_family="Alu"	
repeat_region	1973..2174	/rpt_family="Other"	
repeat_region	2175..2481	/rpt_family="Alu"	
repeat_region	2482..2798	/rpt_family="Other"	
repeat_region	2799..3000	/rpt_family="L1"	
repeat_region	3242..3588	/rpt_family="Retroviral"	
repeat_region	3631..3671	/rpt_family="Retroviral"	
repeat_region	3859..4163	/rpt_family="Alu"	
repeat_region	5091..5153	/rpt_family="L2"	
misc_feature	5123..5137	/note="similar to EST AA156077 (NID:g1727892) zo48g03.r1"	
repeat_region	5156..5212	/rpt_family="MIR"	
repeat_region	5352..5651	/rpt_family="Alu"	
repeat_region	5713..5956	/rpt_family="MIR"	
repeat_region	6019..6058	/rpt_family="Alu"	
repeat_region	6059..6212	/rpt_family="Alu"	
repeat_region	6258..6507	/note="similar to EST AA888358 (NID:g3004033) nw79a02.sl"	
repeat_region	6545..6760	/rpt_family="L2"	
repeat_region	8025..8214	/rpt_family="MIR"	
repeat_region	8452..8777	/rpt_family="Alu"	
misc_feature	9620..9624	/note="similar to EST D51468 (NID:g951704)"	
repeat_region	9872..10079	/rpt_family="MER1_type"	
repeat_region	10147..10184	/rpt_family="MIR"	
misc_feature	10310..10313	/note="match to EST AA854979 (NID:g2942517) aj53f09.sl"	
repeat_region	10652..10743	/rpt_family="MER53"	
repeat_region	11256..11416	/rpt_family="L2"	
misc_feature	12451..12460	/note="match to EST AA453518 (NID:g2167187) zx47f12.sl"	
misc_feature	13521..13731	/note="match to EST AA854979 (NID:g2942517) aj53f09.sl"	
misc_feature	13522..13830	/note="similar to EST AW183295 (NID:g6451893) xj75e08.xl"	
misc_feature	13522..13827	/note="similar to EST AW18588 (NID:g6087172) xg94c07.xl"	
misc_feature	13525..13982	/note="match to EST AI028214 (NID:g3245523) ov96c05.xl"	
misc_feature	13525..13827	/note="match to EST AA453518 (NID:g2167187) zx47f12.sl"	
misc_feature	13724..13827	/note="match to EST AA694503 (NID:g2695441) ah34h09.sl"	
misc_feature	14176..14403	/note="similar to EST AW18588 (NID:g6087172) xg94c07.xl"	
misc_feature	14176..14299	/note="match to EST AA694503 (NID:g2695441) ah34h09.sl"	
misc_feature	14176..14231	/note="match to EST AA453518 (NID:g2167187) zx47f12.sl"	
repeat_region	14264..14665	/note="match to EST AA453517 (NID:g2167186) zx47f12.r1"	
misc_feature	14531..14600	/rpt_family="MIR"	
misc_feature	14953..14958	/note="similar to EST AA488424 (NID:g215855) ab39e04.sl"	
repeat_region	15023..15349	/rpt_family="MER1_type"	
repeat_region	15382..15463	/rpt_family="MIR"	
repeat_region	15487..15795	/rpt_family="Alu"	
repeat_region	16227..16529	/rpt_family="Alu"	
repeat_region	16821..16854	/rpt_family="L2"	
repeat_region	16832..16980	/rpt_family="MIR"	
repeat_region	17090..17258	/rpt_family="MIR"	
repeat_region	17312..17410	/rpt_family="L2"	
repeat_region	18873..19154	/rpt_family="Alu"	
repeat_region	19281..19571	/rpt_family="Alu"	
repeat_region	20138..20206	/rpt_family="U4"	
repeat_region	21599..21725	/rpt_family="L2"	
repeat_region	21982..22286	/rpt_family="Alu"	
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misc_feature      24110..24377
repeat_region     /notes=match to EST AA663026 (NID:g3617017) ab72a10.s1"
repeat_region     /rpt_family="MALR"
repeat_region     26879..27174
repeat_region     /rpt_family="Alu"
repeat_region     27212..27516
repeat_region     /rpt_family="Alu"
repeat_region     27555..27718
repeat_region     /rpt_family="MIR"

Query Match      92.4%; Score 19.4; DB 9; Length 174412;
Best Local Similarity 95.2%; Pred. No. 3e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCCTGTCTCA 21
Db 121530 TCATCCTCACCCCTGTCTCA 121510

RESULT 5
AC122284/c
LOCUS              194991 bp DNA linear HTG 23-MAY-2002
DEFINITION         Mus musculus chromosome UNK clone RP23-246A5, WORKING DRAFT
ACCESSION          AC122284
VERSION            AC122284.1 GI:21105140
KEYWORDS           HTG; HTGS PHASE1; HTGS DRAFT.
SOURCE             Mus musculus (house mouse)
ORGANISM           Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
McPherson,J.D. and Waterston,R.H.
The sequence of Mus musculus clone
Unpublished
2 (bases 1 to 194991)
McPherson,J.D. and Waterston,R.H.
Direct Submission
Submitted (23-MAY-2002) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA

----- Genome Center -----
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc/index.shtml
Contact: submissions@watson.wustl.edu
----- Project Information -----
Center project name: M BA0246A05
----- Summary Statistics -----
Sequencing vector: M13; 0%
Sequencing vector: plasmid; 100%
Chemistry: Dye-primer ET; 0% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.990319
Consensus quality: 190912 bases at least Q40
Consensus quality: 192510 bases at least Q30
Consensus quality: 193557 bases at least Q20
Insert size: 204000; agarose-fp
Insert size: 195984; sum-of-contigs
Quality coverage: 11.70 in Q20 bases; agarose-fp
Quality coverage: 6.63 in Q20 bases; sum-of-contigs
-----
* NOTE: This is a 'working draft' sequence. It currently
* consists of 14 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
*
1 1173: contig of 1173 bp in length

```

```

* 1174 1273: gap of unknown length
* 1274 2330: contig of 1057 bp in length
* 2331 2430: gap of unknown length
* 2431 3593: contig of 1163 bp in length
* 3594 3693: gap of unknown length
* 3694 4999: contig of 1306 bp in length
* 5000 5099: gap of unknown length
* 5100 6465: contig of 1366 bp in length
* 6466 6565: gap of unknown length
* 6566 9541: contig of 2976 bp in length
* 9542 9642: gap of unknown length
* 9643 13055: contig of 3414 bp in length
* 13056 20585: contig of 7430 bp in length
* 20586 20686: gap of unknown length
* 20687 29723: contig of 9038 bp in length
* 29724 43883: contig of 14060 bp in length
* 43884 43984: gap of unknown length
* 43985 56074: contig of 12091 bp in length
* 56075 56175: gap of unknown length
* 56176 80263: contig of 23989 bp in length
* 80264 135342: contig of 55079 bp in length
* 135343 135443: contig of 59549 bp in length.
* 135444 194991: contig of 59549 bp in length.
FEATURES             Location/Qualifiers
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                     /mol_type="genomic DNA"
                     /db_xref="taxon:10090"
                     /chromosome="UNK"
                     /clone="RP23-246A5"
     misc_feature     1..1173
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     misc_feature     1274..2330
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     misc_feature     2431..3593
                     /note="assembly_name:Contig50"
     misc_feature     3694..4999
                     /note="assembly_name:Contig53"
     misc_feature     5100..6465
                     /note="assembly_name:Contig57"
     misc_feature     6566..9541
                     /note="assembly_name:Contig58"
     misc_feature     9642..13055
                     /note="assembly_name:Contig59"
                     clone_end:SP6
                     vector_side:left"
     misc_feature     13156..20585
                     /note="assembly_name:Contig60"
     misc_feature     20686..29723
                     /note="assembly_name:Contig61"
     misc_feature     29824..43883
                     /note="assembly_name:Contig62"
     misc_feature     43984..56074
                     /note="assembly_name:Contig63"
     misc_feature     56175..80163
                     /note="assembly_name:Contig64"
                     clone_end:17
                     vector_side:left"
     misc_feature     80264..135342
                     /note="assembly_name:Contig65"
     misc_feature     135443..194991
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BASE COUNT  55728 a 42930 c 41683 g 53332 t 1318 others
ORIGIN
Query Match      92.4%; Score 19.4; DB 2; Length 194991;
Best Local Similarity 95.2%; Pred. No. 3e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TCATCCTCACCCCTGTCTCA 21

```


AC120654
VERSION
KEYWORDS
SOURCE
ORGANISM

AC120654.4 GI:25008188
HTG; HTGS PHASE1; HTGS DRAFT; HTGS ENRICHED.
Rattus norvegicus (Norway rat)

Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

REFERENCE
AUTHORS

1 (bases 1 to 168135)
Muzny, D. Marie., Metzker, M. Lee., Abramson, S., Adams, C., Alder, J.,
Allen, C., Allen, H., Alsbrooks, S., Amin, A., Anguiano, D.,
Anyalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H.,
Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F.,
Biswal, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M.,
Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E.,
Cardenas, V., Carter, K., Cavazos, I., Cesar, H., Center, A.,
Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J.,
Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L.,
Davila, M. L., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D.,
Delgado, O., Denison, S., Deramo, C., Ding, Y., Dinh, H., Divya, K.,
Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K.,
Egan, A., Escotto, M., Eugene, C., Evans, C. A., Falls, T., Fan, G.,
Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P.,
Fraser, C. M., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M.,
Gebregeorgis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W.,
Gunaratne, P., Haaland, W., Hamill, C., Hamilton, C., Hamilton, K.,
Harvey, I., Havlak, P., Hawes, A., Henderson, N., Hernandez, J.,
Hernandez, R., Hines, S., Hladun, S. L., Hodgson, A., Hogue, M.,
Hollins, B., Howells, S., Hulyk, S., Hume, J., Idlebird, D., Jackson, A.,
Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A.,
Karpachy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C.,
Kowis, C., Kraft, C. L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J.,
Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J.,
Lorensu, L., Loulseghe, H., Lozano, R. J., Lu, X., Ma, J.,
Maheshwari, M., Mahindaratne, M., Mahmoud, M., Malloy, K., Mangum, A.,
Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E.,
Mawhinney, S., McLeod, M. P., McNeill, T. Z., Meenen, E.,
Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S.,
Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L.,
Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S.,
Nwakeleneh, O., Okwuonu, G., Olarnpunsagoon, A., Pal, S., Parks, K.,
Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkuch, C.,
Plummer, F., Poidexter, A., Popovic, D., Primus, E., Pu, L.,
Puazo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M. A., Reigh, R.,
Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F.,
Rives, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S. J.,
Sanders, W., Savary, G., Scherer, S., Scott, G., Shatsman, S., Shen, H.,
Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C. D., Smajls, D.,
Sneed, A., Sodergren, E., Song, X.-Z., Sorelle, R., Sosa, J.,
Steinle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C.,
Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K.,
Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J.,
Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F.,
Williams, G., Willson, R., Wlezyk, R., Wooden, H., Worley, K.,
Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V.,
Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von
Niederhausern, A., Weis, R., Smith, D. R., Holt, R. A., Smith, H. O.,
Weinstock, G. and Gibbs, R. A.

TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL

Unpublished
2 (bases 1 to 168135)
Worley, K. C.
Direct Submission
Submitted (09-MAY-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

REFERENCE
AUTHORS
TITLE
JOURNAL

3 (bases 1 to 168135)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (15-NOV-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Nov 15, 2002 this sequence version replaced gi:23195506.

COMMENT

The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>
Contact: hgsc-help@bcm.tmc.edu

----- Project Information
Center project name: GXHU
Center clone name: CH230-389M12

----- Summary Statistics
Assembly program: Phrap; version 0.990329
Consensus quality: 153795 bases at least Q40
Consensus quality: 15395 bases at least Q30
Consensus quality: 156543 bases at least Q20

Estimated insert size: 154783; sum-of-contigs estimation
Quality coverage: 6x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 3 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

1 7528: contig of 7528 bp in length
* 7529 7628: gap of unknown length
* 7629 165839: contig of 158211 bp in length
* 165840 165939: gap of unknown length
* 165940 168135: contig of 2196 bp in length.

FEATURES
source

Location/Qualifiers
1..168135
/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
/clone="CH230-389M12"

misc_feature

1..1195

/notes="wgs_end_extension"

clone_end:77"

2278..4596

/note="wgs_end_extension"

clone_end:77"

4496..5381

/notes="clone_boundary"

clone_end:77"

site:

end sequence:BZ184583"

7629..9074

/notes="wgs_contig"

161618..163039

/notes="wgs_contig"

164009..165839

/note="wgs_contig"

BASE COUNT 43739 a 34745 c 37114 g 41570 t 10967 others

ORIGIN

Query Match 90.5%; Score 19; DB 2; Length 168135;
Best Local Similarity 100.0%; Pred. No. 4.5e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CATCCTCACCCCTTGCTC 20
 ||||||||||||||||
 Db 67161 CATCCTCACCCCTTGCTC 67143

RESULT 9
 AC095135/c
 LOCUS
 DEFINITION Rattus norvegicus clone CH230-8C1, WORKING DRAFT SEQUENCE, 4
 AC095135
 AC095135.10 GI:30467351
 HTG, HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
 KEYWORDS Rattus norvegicus (Norway rat)
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.

1 (bases 1 to 263262)
 Murny,D,Marie., Metzker,M, Lee., Abramson,S., Adams,C., Alder,J.,
 Allen,C., Allen,H., Alabrooks,S., Amin,A., Anguiano,D.,
 Anyalabechi,V., Aoyagi,A., Ayodeji,M., Baca,E., Baden,H.,
 Baldwin,D., Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,F.,
 Biswal,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M.,
 Bryant,N., Buhay,C., Burch,P., Burrell,K., Calderon,E.,
 Cardenas,V., Carter,K., Cavazos,I., Cesar,H., Center,A.,
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 Cleveland,C., Cockrell,R., Cox,C., Coyle,M., Cree,A., D'Souza,L.,
 Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D.,
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 Draper,H., Dugan-Rocha,S., Dunn,A., Durbin,K., Duval,B., Eaves,K.,
 Egan,A., Escotto,M., Eugene,C., Evans,C.A., Falls,T., Fan,G.,
 Fernandez,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P.,
 Fraser,C.M., Gabisi,A., Ganta,R., Garcia,A., Garner,T., Garza,M.,
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 Hernandez,R., Hines,S., Hladun,S.L., Hodgson,A., Hognes,M.,
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 Jackson,L., Jacob,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A.,
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 Mawhney,S., McLeod,M.P., McNeill,T.Z., Meenen,E.,
 Milosavljevic,A., Miner,G., Minja,E., Montemayor,J., Moore,S.,
 Morgan,M., Morris,K., Morris,S., Munidas,M., Murphy,M., Nair,L.,
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 Taylor,T., Thomas,N., Thomas,S., Tingey,A., Trejos,Z., Usmani,K.,
 Valas,R., Vera,V., Villasana,D., Waldron,L., Walker,B., Wang,J.,
 Wang,Q., Wang,S., Warren,J., Warren,R., Wei,X., White,F.,
 Williams,G., Willson,R., Wlezyk,R., Wooden,H., Worley,K.,
 Wright,D., Wright,R., Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V.,
 Yu,F., Zhang,J., Zhou,X., Zhou,X., Zhao,S., Dunn,D., von
 Niederhausen,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O.,
 Weinstein,G. and Gibbs,R.A.
 Direct Submission
 Unpublished
 2 (bases 1 to 263262)
 Worley,K.C.
 Direct Submission

TITLE
 JOURNAL
 REFERENCE
 AUTHORS
 TITLE

JOURNAL
 REFERENCE
 AUTHORS
 TITLE
 JOURNAL

COMMENT

Submitted (16-SEP-2001) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 3 (bases 1 to 263262)
 Rat Genome Sequencing Consortium.
 Direct Submission
 Submitted (09-MAY-2003) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 On May 9, 2003 this sequence version replaced gi:34940774.
 The sequence in this assembly is a combination of BAC based reads
 and whole genome shotgun sequencing reads assembled using Atlas
 (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
 in the feature table below represents a scaffold in the Atlas
 assembly (a 'contig-scaffold'). Within each contig-scaffold,
 individual sequence contigs are ordered and oriented, and separated
 by sized gaps filled with Ns to the estimated size. The sequence
 may extend beyond the ends of the clone and there may be sequence
 contigs within a contig-scaffold that consist entirely of whole
 genome shotgun sequence reads. Both end sequences and whole genome
 shotgun sequence only contigs will be indicated in the feature
 table.

----- Genome Center
 Center: Baylor College of Medicine
 Center code: BCM
 Web site: http://www.hgsc.bcm.tmc.edu/
 Contact: hgsc-help@bcm.tmc.edu
 ----- Project Information
 Center project name: GCRK
 Center clone name: CH230-8C1
 ----- Summary Statistics
 Assembly program: Atlas;
 Consensus quality: 240713 bases at least Q40
 Consensus quality: 241900 bases at least Q30
 Consensus quality: 242534 bases at least Q20
 Estimated insert size: 261225; sum-of-contigs estimation
 Quality coverage: 10x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html)
 * NOTE: This sequence may represent more than one clone.
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 4 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

1 17247: contig of 17247 bp in length
 * 17248 17347: gap of unknown length
 * 17348 20718: contig of 3371 bp in length
 * 20719 20818: gap of unknown length
 * 20819 260812: contig of 239994 bp in length
 * 260813 260912: gap of unknown length
 * 260913 263262: contig of 2350 bp in length.

FEATURES
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BASE COUNT 60249 a 58455 c 60485 g 63790 t 20283 others
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 Best Local Similarity 100.0%; Pred. No. 4.2e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CATCCTCACCCCTTGCTC 20
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 Db 224415 CATCCTCACCCCTTGCTC 224397


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repeat_region /rpt family="B4A"
repeat_region 25089..25140
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repeat_region 25995..26125
repeat_region /rpt family="TCCA)n"
repeat_region 26037..26399
repeat_region /rpt family="CT-rich"
repeat_region 26414..26545
repeat_region /rpt family="TCCA)n"
repeat_region 26552..26699
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repeat_region complement(27306..28013)
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repeat_region 32860..32990
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Query Match 90.5%; Score 19; DB 10; Length 276523;
 Best Local Similarity 100.0%; Pred.No. 4.2e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 11
 BD077670
 LOCUS
 DEFINITION 5'EST of secreted protein expressed in muscles and other mesodermal tissues.
 accession BD077670

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BD077670.1 GI:22623273
JP 2001512016-A/256
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE Rukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE Edwards, J.B.D.M., Duclert, A. and Lacroix, B.
5'EST of secreted protein expressed in muscles and other mesodermal tissues
JOURNAL Patent: JP 2001512016-A 256 21-AUG-2001;
GENSET OS Homo sapiens (human)
PN JP 2001512016-A/256
PD 21-AUG-2001
PF 31-JUL-1998 JP 2000505295
PR 01-AUG-1997 US 08/905134
PI JEAN BAPTISTE DUMAS MILNE EDWARDS, AYMERIC DUCLERT, BRUNO PI
LACROIX
PC C12N15/09, C12N15/09, C07K14/47, C12M1/00, C12N15/00, C12N15/00 CC
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CC id W07871
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CC region 144..280
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CC region 161..305
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CC blastn
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CC identity 91
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CC est
CC von Heijne matrix
CC score 6.6
CC seq LILVLQLLRLRR/NR

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Db 317 CACCCTCACCCTTGCTCTCA 298

RESULT 13
 LOCUS AX183446 700 bp DNA linear PAT 06-AUG-2001
 DEFINITION Sequence 1199 from Patent WO0142511.
 ACCESSION AX183446
 VERSION AX183446.1 GI:15134759
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1
 AUTHORS Daly,M., Hudson,T.J., Lander,E.S., Rioux,J. and Siminovitch,K.
 TITLE Ibd-related polymorphisms
 JOURNAL Patent: WO 0142511-A 1199 14-JUN-2001;
 WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH (US) ; Ellipsis
 Biotherapeutics Corporation (CA)
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 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 2 CACCTCTCACCCTTGCTCTCA 21
 420 CAGCCTCACCCTTGCTCTCA 439
 Db

RESULT 14
 VFABAMRCC 993 bp DNA linear PLN 27-APR-1993
 LOCUS Broad bean (V.faba) BamHI repetitive element, 990 bp family.
 DEFINITION
 ACCESSION M16855
 VERSION M16855.1 GI:170603
 KEYWORDS BamHI repetitive sequence.
 SOURCE Vicia faba (fava bean)
 ORGANISM Vicia faba
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
 rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Viciae;
 Vicia.
 1. (bases 1 to 993)
 Kato,A., Iida,Y., Yakura,K. and Tanifuji,S.
 TITLE Sequence analysis of Vicia faba highly repeated DNA: the BamHI
 repeated sequence families
 JOURNAL Plant Mol. Biol. 5: 41-53 (1985)
 COMMENT Original source text: Broad bean (V.faba) seed (embryonic axes)
 DNA.
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 Best Local Similarity 95.0%; Pred.No.1.7e+03;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 TCATCCTCACCCTTGCTCTC 20

Search completed: February 19, 2004, 22:22:00
Job time : 1601.5 secs

Search completed: February 19, 2004, 22:22:00
Job time : 1601.5 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 19:59:22 ; Search time 175.5 Seconds
(without alignments)
323.010 Million cell updates/sec

Title: US-10-085-108-21_COPY_175_195

Perfect score: 21

Sequence: 1 TCATCCTCACCTTGCTCTCA 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	21	25	ABX95021 Human MAGE-C3 expr
2	21	100.0	424	22	ABA51189 Human breast cell
3	21	100.0	424	22	ABA69192 Human fetal liver
4	21	100.0	424	22	ABA36116 Probe #14582 for g
5	21	100.0	424	22	AAK17490 Human brain expres
6	21	100.0	424	22	AAK43299 Human bone marrow
7	21	100.0	424	22	AAI24071 Probe #14004 for g
8	21	100.0	424	22	AAI49367 Probe #18053 used

C	9	21	100.0	424	22	AAI09651	Probe #9642 used t
C	10	21	100.0	424	23	ABS42926	Human liver single
C	11	21	100.0	424	24	ABS17378	Human genome-deriv
C	12	21	100.0	1041	25	ABX95006	cDNA encoding huma
C	13	21	100.0	7806	23	AA888354	DNA encoding novel
C	14	18.4	87.6	321	20	AA441050	Human secreted pro
C	15	18.4	87.6	700	22	AAH93187	Human inflammatory
C	16	18.4	87.6	772	22	AAH34669	Human colon cancer
C	17	18.4	87.6	852	22	AA826209	Human cDNA encodin
C	18	18.4	87.6	852	25	ABX73550	Human novel polynu
C	19	18.4	87.6	1125	21	AA257867	Protein regulating
C	20	18.4	87.6	1246	21	AA97486	Human transcriptio
C	21	18.4	87.6	1697	24	ABU55652	Signal peptidase 2
C	22	18.4	87.6	2043	21	AAA75119	cDNA encoding a nu
C	23	18.4	87.6	2521	23	AA867756	DNA encoding novel
C	24	17.8	84.8	1251	21	AAA09347	Human MBP-calretic
C	25	17.8	84.8	1890	10	AA91471	1.9 kb Ro (Ro/SSA)
C	26	17.8	84.8	1899	24	ABV73173	Human calreticulin
C	27	17.8	84.8	1899	24	ABK11662	DNA encoding human
C	28	17.8	84.8	1899	25	ABT17040	Human MP21 gene CR
C	29	17.8	84.8	1920	24	AA229931	Human calreticulin
C	30	17.8	84.8	1924	24	AA895010	Human DNA sequence
C	31	17.8	84.8	1958	21	AAA09346	Human MBP-calretic
C	32	17.8	84.8	1958	24	AA339469	Human calreticulin
C	33	17.8	84.8	2086	23	AA886143	DNA encoding novel
C	34	17.8	84.8	4054	24	ABN60011	Novel human coding
C	35	17.8	84.8	110096	24	ABN95044	Gene #1542 used to
C	36	17.4	82.9	432	22	ABA45379	Human breast cell
C	37	17.4	82.9	432	22	ABA55869	Human fetal liver
C	38	17.4	82.9	432	22	ABA25543	Probe #4009 for ge
C	39	17.4	82.9	432	22	AAK04087	Human brain expres
C	40	17.4	82.9	432	22	AAK29569	Human bone marrow
C	41	17.4	82.9	432	22	AAI14143	Probe #4076 for ge
C	42	17.4	82.9	432	22	AAI35528	Probe #4214 used t
C	43	17.4	82.9	432	22	AAI03991	Probe #3982 used t
C	44	17.4	82.9	432	23	ABS29199	Human liver single
C	45	17.4	82.9	432	24	ABS04124	Human genome-deriv

ALIGNMENTS

RESULT 1
ABX95021
ID ABX95021 standard; DNA; 21 BP.

XX AC ABX95021;

XX DT 05-JUN-2003 (first entry)

XX DE Human MAGE-C3 expression pattern analysis RT-PCR sense primer.

XX KW TRAP; ss; tumour rejection antigen precursor; cytolytic T-cell; CTL;
tumour; seminoma; bladder transitional-cell carcinoma; NSCLC; adaptor;
head-and-neck squamous-cell carcinoma; breast carcinoma; sarcoma;
cutaneous melanoma; nonsmall cell lung cancer; RT-PCR; primer; MAGE-C3;
human; reverse transcription.

XX OS Homo sapiens.

XX PN US2002176865-A1.

XX PD 28-NOV-2002.

XX PF 01-MAR-2002; 2002US-0085108.

XX PR 09-FEB-2000; 2000US-0501104.

XX PR 25-APR-1997; 97US-0845528.

XX PR 24-APR-1998; 98US-0066281.

XX PR 17-DEC-1999; 99US-0468433.

XX PA (LUCAS/) LUCAS S.

XX PA (BOON/) BOON-FALLEUR T.

XX Lucas S, Boon-Falleur T;
 PI WPI; 2003-328468/31.
 DR
 XX
 XX
 XX
 PT Novel isolated nucleic acid encoding tumor rejection antigen precursor
 PT MAGS-C3, MAGE-B5, or MAGE-B6, useful as diagnostic probes to determine
 PT presence of abnormal e.g., tumor cells expressing MAGE-C1, MAGE-B5 or
 PT MAGE-B6
 XX
 XX
 PS Example 12; Page 13; 59pp; English.
 XX
 XX The invention relates to an isolated nucleic acid molecule which encodes
 CC a tumour rejection antigen precursor (TRAP) having an amino acid sequence
 CC of a TRAP encoded by a fully defined MAGE-C3, MAGE-B5, or MAGE-B6
 CC polynucleotide sequence. Also disclosed is a method which is useful for
 CC determining presence of cytolytic T-cells specific for complexes of human
 CC leukocyte antigen (HLA) and a peptide derived from the nucleic acid in a
 CC cytotoxic T-lymphocyte (CTL)-containing sample. The nucleic acid is
 CC useful as a diagnostic probe to determine the presence of abnormal
 CC (tumour) cells such as seminoma, bladder transitional-cell carcinoma,
 CC head-and-neck squamous-cell carcinoma, breast carcinoma, sarcoma,
 CC cutaneous melanoma or non-small cell lung cancer (NSCLC) which express
 CC MAGE-C1, MAGE-B5 or MAGE-B6. The nucleic acid is useful for diagnosing a
 CC disorder characterised by expression of MAGE-C1, MAGE-B5 or MAGE-B6 TRAPs
 CC or tumour rejection antigens (TRAs). The present sequence represents the
 CC human MAGE-C3 expression pattern analysis reverse transcription (RT)-PCR
 CC sense primer.
 XX
 XX Sequence 21 BP; 3 A; 10 C; 1 G; 7 T; 0 other;
 SQ
 Query Match 100.0%; Score 21; DB 25; Length 21;
 Best Local Similarity 100.0%; Pred. No. 14;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCATCCTCACCCCTGTGCTCA 21
 Db 1 TCATCCTCACCCCTGTGCTCA 21
 RESULT 2
 ID ABA51188/c
 ID ABA51188 standard; DNA; 424 BP.
 AC ABA51188;
 XX
 XX 01-FEB-2002 (first entry)
 DT
 DE Human breast cell single exon nucleic acid probe #9883.
 DE
 XX Human; microarray; single exon probe; gene expression; breast;
 KW disease; cancer; ss.
 KW
 XX Homo sapiens.
 OS
 XX WO200157271-A2.
 PN
 XX 09-AUG-2001.
 PD
 XX 30-JAN-2001; 2001WO-US00662.
 XX
 XX 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 PA Penn SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2001-483447/52.
 XX Human genome-derived single exon nucleic acid probes useful for

DR WPI; 2001-496933/54.
 XX
 PT New spatially-addressable set of single exon nucleic acid probes,
 PT useful for measuring gene expression in sample derived from human
 PT breast, comprises number of single exon nucleic acid probes
 XX
 XX Claim 4; SEQ ID NO 9883; 327pp + sequence listing; English.
 XX
 CC The invention relates to a spatially-addressable set of single exon
 CC nucleic acid probes for measuring gene expression in a sample derived
 CC from human breast and BT 474 cells. The method involves contacting
 CC the probes with a collection of detectably labelled nucleic acids
 CC derived from mRNA of human breast, and then measuring the label
 CC bound to each probe of the microarray. The probes are useful for
 CC verifying the expression of regions of genomic DNA predicted to
 CC encode proteins. They are useful for gene discovery, and for
 CC determining predisposition and/or prognosing breast disease. Gene
 CC expression analysis is useful for assessing the toxicity of chemical
 CC agents on cells. The microarray of this invention presents a far greater
 CC diversity of probes for measuring gene expression, with far less bias
 CC than expressed sequence tag microarrays. The method is suitable for
 CC rapid production of functional information from genomic sequence. The
 CC present sequence is a single exon nucleic acid probe of the invention.
 CC Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
 SQ
 Query Match 100.0%; Score 21; DB 22; Length 424;
 Best Local Similarity 100.0%; Pred. No. 16;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCATCCTCACCCCTGTGCTCA 21
 Db 411 TCATCCTCACCCCTGTGCTCA 391
 RESULT 3
 ID ABA69192/c
 ID ABA69192 standard; DNA; 424 BP.
 AC ABA69192;
 XX
 XX 01-FEB-2002 (first entry)
 DT
 DE Human foetal liver single exon nucleic acid probe #17497.
 DE
 XX Human; foetal liver; gene expression; single exon nucleic acid probe; ss.
 KW
 XX Homo sapiens.
 OS
 XX WO200157277-A2.
 PN
 XX 09-AUG-2001.
 PD
 XX 30-JAN-2001; 2001WO-US00669.
 XX
 XX 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 PA Penn SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2001-483447/52.
 XX Human genome-derived single exon nucleic acid probes useful for

PT analyzing gene expression in human fetal liver -
PS Claim 4; SEQ ID NO 17497; 639pp + sequence listing; English.
XX
CC The invention relates to a single exon nucleic acid probe for
CC measuring human gene expression in a sample derived from human foetal
CC liver. The single exon nucleic acid probes may be used for predicting,
CC measuring and displaying gene expression in samples derived from human
CC fetal liver. The present sequence is a single exon nucleic acid
CC probe of the invention.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
Query Match 100.0%; Score 21; DB 22; Length 424;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCATCCTCACCCCTGTCTCA 21
DB 411 TCATCCTCACCCCTGTCTCA 391
RESULT 4
ABA36116/c
ID ABA36116 standard; DNA; 424 BP.
XX
AC ABA36116;
XX
DT 23-JAN-2002 (first entry)
DE
DE Probe #14582 for gene expression analysis in human heart cell sample.
XX Human; gene expression; heart; microarray; vascular system; probe;
KW cardiovascular disease; hypertension; cardiac arrhythmia;
KW congenital heart disease; ss.
XX Homo sapiens.
XX
XX WO200157274-A2.
PN
PN
PD 09-AUG-2001.
PF
PF 30-JAN-2001; 2001WO-US00666.
XX
XX 04-FEB-2000; 2000US-0180312.
PR
PR 26-MAY-2000; 2000US-0207456.
PR
PR 30-JUN-2000; 2000US-0608408.
PR
PR 03-AUG-2000; 2000US-0632366.
PR
PR 21-SEP-2000; 2000US-0234687.
PR
PR 27-SEP-2000; 2000US-0236359.
PR
PR 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
PA
XX Penn SG, Hanzel DK, Chen W, Rank DR;
PI
XX WPI; 2001-488899/53.
XX
XX Single exon nucleic acid probes for analyzing gene expression in human
PT hearts -
PT
XX Claim 4; SEQ ID No 14582; 530pp; English.
XX
XX The present invention relates to single exon nucleic acid probes for
CC measuring human gene expression in a sample derived from human heart. The
CC present sequence is one such probe. The probes may be used for
CC predicting, measuring and displaying gene expression in samples derived
CC from the human heart via microarrays. By measuring gene expression, the
CC probes are useful for predicting, diagnosing, grading, staging,
CC monitoring and prognosing diseases of the human heart and vascular system

CC e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
CC congenital heart disease.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
Query Match 100.0%; Score 21; DB 22; Length 424;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCATCCTCACCCCTGTCTCA 21
DB 411 TCATCCTCACCCCTGTCTCA 391
RESULT 5
AAK17490/c
ID AAK17490 standard; DNA; 424 BP.
XX
XX AAK17490;
AC
XX
XX 05-NOV-2001 (first entry)
DT
XX Human brain expressed single exon probe SEQ ID NO: 17481.
DE
DE Human; brain expressed exon; gene expression analysis; probe;
KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
KW epilepsy; cancer; ss.
XX Homo sapiens.
XX
XX WO200157275-A2.
PN
XX
XX 09-AUG-2001.
PD
XX
XX 30-JAN-2001; 2001WO-US00667.
PF
XX
XX 04-FEB-2000; 2000US-0180312.
PR
XX 26-MAY-2000; 2000US-0207456.
PR
XX 30-JUN-2000; 2000US-0608408.
PR
XX 03-AUG-2000; 2000US-0632366.
PR
XX 21-SEP-2000; 2000US-0234687.
PR
XX 27-SEP-2000; 2000US-0236359.
PR
XX 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
PA
XX Penn SG, Hanzel DK, Chen W, Rank DR;
PI
XX WPI; 2001-483446/52.
XX
XX Single exon nucleic acid probes for analyzing gene expression in human
PT brains -
PT
XX
XX Example 4; SEQ ID NO: 17481; 650pp + Sequence Listing; English.
XX
XX The present invention provides a number of single exon nucleic acid
CC probes which are derived from genomic sequences expressed in the human
CC brain. They can be used to measure gene expression in brain cell samples,
CC which may enable the diagnosis and improved treatment of nervous system
CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
CC epilepsy and cancers. The present sequence is one of the probes of the
CC invention.
XX
XX Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
SQ
Query Match 100.0%; Score 21; DB 22; Length 424;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCATCCTCACCCCTGTCTCA 21

Db 411 TCATCCTCACCCCTTGCTCTCA 391

RESULT 6

AAK43299/c

ID AAK43299 standard; DNA; 424 BP.

XX AC AAK43299;

XX DT 06-NOV-2001 (first entry)

XX DE Human bone marrow expressed single exon probe SEQ ID NO: 17856.

XX DE Human; bone marrow expressed exon; gene expression analysis; probe;

XX KW microarray; cancer; leukaemia; lymphoma; myeloma; ss.

XX OS Homo sapiens.

XX PN WO200157276-A2.

XX PD 09-AUG-2001.

XX PF 30-JAN-2001; 2001WO-US00668.

XX PR 04-FEB-2000; 2000US-0180312.

XX PR 26-MAY-2000; 2000US-0207456.

XX PR 30-JUN-2000; 2000US-0608408.

XX PR 03-AUG-2000; 2000US-0632366.

XX PR 21-SEP-2000; 2000US-0234687.

XX PR 27-SEP-2000; 2000US-0236359.

XX PR 04-OCT-2000; 2000GB-0024263.

XX PA (MOLE-) MOLECULAR DYNAMICS INC.

XX PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX DR WPI; 2001-488900/53.

XX PT Human genome-derived single exon nucleic acid probes useful for

XX PT analyzing gene expression in human bone marrow -

XX PS Example 4; SEQ ID NO: 17856; 658pp + Sequence Listing; English.

XX CC The present invention provides a number of single exon nucleic acid

XX CC probes which are derived from genomic sequences expressed in the human

XX CC bone marrow. They can be used to measure gene expression in bone marrow

XX CC samples, which may enable the improved diagnosis and treatment of cancers

XX CC such as lymphoma, leukaemia and myeloma. The present sequence is one of

XX CC the probes of the invention.

XX SQ Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;

XX Query Match 100.0%; Score 21; DB 22; Length 424;

XX Best Local Similarity 100.0%; Pred. No. 16;

XX Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX QY 1 TCATCCTCACCCCTTGCTCTCA 21

XX Db 411 TCATCCTCACCCCTTGCTCTCA 391

XX RESULT 7

XX AAI24071/c

XX ID AAI24071 standard; DNA; 424 BP.

XX AC AAI24071;

XX DT 12-OCT-2001 (first entry)

XX DE Probe #14004 for gene expression analysis in human cervical cell sample.

XX KW Probe; human; microarray; gene expression; cervical epithelial cell;

KW cervical cancer; ss.

XX OS Homo sapiens.

XX PN WO200157278-A2.

XX PD 09-AUG-2001.

XX PF 30-JAN-2001; 2001WO-US00670.

XX PR 04-FEB-2000; 2000US-0180312.

XX PR 26-MAY-2000; 2000US-0207456.

XX PR 30-JUN-2000; 2000US-0608408.

XX PR 03-AUG-2000; 2000US-0632366.

XX PR 21-SEP-2000; 2000US-0234687.

XX PR 27-SEP-2000; 2000US-0236359.

XX PR 04-OCT-2000; 2000GB-0024263.

XX PA (MOLE-) MOLECULAR DYNAMICS INC.

XX PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX DR WPI; 2001-488901/53.

XX PT Human genome-derived single exon nucleic acid probes useful for

XX PT analyzing gene expression in human cervical epithelial cells -

XX PS Claim 25; SEQ ID No 14004; 487pp; English.

XX CC The present invention relates to human single exon nucleic acid probes

XX CC (SENP). The present sequence is one such probe. The SENPs are derived

XX CC from human HeLa cells. The SENPs can be used to produce a single exon

XX CC microarray, which can be used for measuring human gene expression in a

XX CC sample derived from human cervical epithelial cells. By measuring gene

XX CC expression, the probes are therefore useful in grading and/or staging

XX CC of diseases of the cervix, notably cervical cancer.

XX CC Note: The sequence data for this patent did not form part of the printed

XX CC specification, but was obtained in electronic format directly from WIPO

XX CC at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;

XX Query Match 100.0%; Score 21; DB 22; Length 424;

XX Best Local Similarity 100.0%; Pred. No. 16;

XX Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX QY 1 TCATCCTCACCCCTTGCTCTCA 21

XX Db 411 TCATCCTCACCCCTTGCTCTCA 391

XX RESULT 8

XX AAI49367/c

XX ID AAI49367 standard; DNA; 424 BP.

XX AC AAI49367;

XX DT 17-OCT-2001 (first entry)

XX DE Probe #18053 used to measure gene expression in human placenta sample.

XX KW Probe; microarray; human; placenta; antenatal diagnosis;

XX KW genetic disorder; ss.

XX OS Homo sapiens.

XX PN WO200157272-A2.

XX PD 09-AUG-2001.

XX PF 30-JAN-2001; 2001WO-US00663.

XX PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 PA
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2001-488897/53.
 XX Human genome-derived single exon nucleic acid probes useful for
 PT analysing gene expression in human placenta -
 PT
 PS Claim 25; SEQ ID No 18053; 654pp; English.
 XX
 CC The present invention relates to single exon nucleic acid probes (SENP).
 CC The present sequence is one such probe. The probes are useful for
 CC producing a microarray for predicting, measuring and displaying gene
 CC expression in samples derived from human placenta. The probes are useful
 CC for antenatal diagnosis of human genetic disorders.
 XX
 SQ Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
 Query Match 100.0%; Score 21; DB 22; Length 424;
 Best Local Similarity 100.0%; Pred. No. 16;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCATCCTCACCCCTGTCTCA 21
 Db 411 TCATCCTCACCCCTGTCTCA 391
 RESULT 9
 AAI09651/c
 ID AAI09651 standard; DNA; 424 BP.
 AC AAI09651;
 XX
 DT 09-OCT-2001 (first entry)
 XX
 DE Probe #9642 used to measure gene expression in human breast sample.
 XX
 KW Probe; human; breast disease; breast cancer; development disorder; ss;
 KW inflammatory disease; proliferative breast disease; non-carcinoma tumour.
 XX
 OS Homo sapiens.
 XX
 PN WO200157270-A2.
 XX
 PD 09-AUG-2001.
 XX
 PF 29-JAN-2001; 2001WO-US000661.
 XX
 PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 PA
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2001-476286/51.
 XX Novel single exon nucleic acid probe used to measuring gene expression
 PT in a human breast -
 PT
 XX

PS Claim 25; SEQ ID No 9642; 322pp; English.
 XX
 CC The present invention relates to novel single exon nucleic acid probes.
 CC The present sequence is one such probe. The probes are useful for
 CC measuring human gene expression in a human breast sample, where the probe
 CC hybridises at high stringency to a nucleic acid expressed in the human
 CC breast. The probes are useful for predicting, diagnosing, grading,
 CC staging, monitoring and prognosing diseases of the human breast,
 CC particularly those diseases with polygenic aetiology. The diseases
 CC include: breast cancer, disorders of development, inflammatory diseases
 CC of the breast, fibrocystic changes, proliferative breast disease and
 CC non-carcinoma tumours.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
 Query Match 100.0%; Score 21; DB 22; Length 424;
 Best Local Similarity 100.0%; Pred. No. 16;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCATCCTCACCCCTGTCTCA 21
 Db 411 TCATCCTCACCCCTGTCTCA 391
 RESULT 10
 ABS42926/c
 ID ABS42926 standard; DNA; 424 BP.
 XX
 AC ABS42926;
 XX
 DT 25-FEB-2003 (first entry)
 XX
 DE Human liver single exon probe, SEQ ID No 17916.
 XX
 KW Human; single exon nucleic acid probe; liver; cirrhosis;
 KW hyperlipoproteinaemia; hyperlipidaemia; hypercholesterolaemia;
 KW coronary heart disease; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200157273-A2.
 XX
 PD 09-AUG-2001.
 XX
 PF 30-JAN-2001; 2001WO-US000664.
 XX
 PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 PA
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2001-488898/53.
 XX Human genome-derived single exon nucleic acid probes useful for
 PT analysing gene expression in human adult liver -
 PT
 PS Claim 4; SEQ ID No 17916; 658pp; English.
 XX
 CC The invention relates to a single exon nucleic acid probe (SENP) (I) for
 CC measuring human gene expression in a sample derived from human adult
 CC liver, comprising one of 13109 defined nucleotide sequences given in the
 CC specification (or complements/ fragments). The probe hybridises at high
 CC stringency to a nucleic acid molecule expressed in the human adult

CC liver. (I) may be used for predicting, measuring and displaying gene
CC expression in samples derived from human adult liver. The genes
CC identified may be involved in genetic liver diseases such as cirrhosis,
CC hyperlipoproteinaemia, hyperlipidaemia and hypercholesterolaemia which
CC is associated with coronary heart disease. ABS25011-ABS51005 represent
CC human liver single exon nucleic acid probes of the invention.
CC Note: The sequence information for this patent does not appear in the
CC printed specification but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
Query Match 100.0%; Score 21; DB 23; Length 424;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCATCCTCACCCCTTGCTCTCA 21
Db 411 TCATCCTCACCCCTTGCTCTCA 391
RESULT 11
ABS17378/c
ID ABS17378 standard; DNA; 424 BP.
XX
AC ABS17378;
DT 19-AUG-2002 (first entry)
XX
DE Human genome-derived single exon probe ORF from lung SEQ ID No 17369.
XX
KW Human; ds; single exon probe; asthma; lung cancer; COPD; ILD;
KW chronic obstructive pulmonary disease; interstitial lung disease;
KW familial idiopathic pulmonary fibrosis; neurofibromatosis;
KW tuberous sclerosis; Gaucher's disease; Niemann-Pick disease;
KW Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;
KW pulmonary histiocytosis; lymphangioleiomyomatosis; Karagener syndrome;
KW pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;
KW primary ciliary dyskinesia; pulmonary hypertension;
KW hyaline membrane disease; open reading frame; ORF.
XX
XX Homo sapiens.
OS
PN WO200186003-A2.
XX
PD 15-NOV-2001.
XX
PF 30-JAN-2001; 2001WO-US00665.
XX
PR 04-FEB-2000; 2000US-180312P.
XX
PR 26-MAY-2000; 2000US-207456P.
XX
PR 30-JUN-2000; 2000US-0608408.
XX
PR 03-AUG-2000; 2000US-0632366.
XX
PR 21-SEP-2000; 2000US-234687P.
XX
PR 27-SEP-2000; 2000US-236359P.
XX
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2002-114183/15.
XX
XX Spatially-addressable set of single exon nucleic acid probes, used to
XX measure gene expression in human lung samples -
PT
PT Claim 4; SEQ ID No 17369; 634pp; English.
FS
XX
XX The invention relates to a spatially-addressable set of single exon
XX nucleic acid probes for measuring gene expression in a sample derived
XX from human lung comprising single exon nucleic acid probes having one of
XX 12614 nucleic acid sequences mentioned in the specification, or their
XX complements or the 12387 open reading frames derived from the 12614

CC probes. Also included are a microarray comprising the novel set of
CC probes; the novel set of probes which hybridise at high stringency to a
CC nucleic acid expressed in the human lung; measuring gene expression in a
CC sample derived from human lung, comprising (a) contacting the array with
CC a collection of detectably labeled nucleic acids derived from human lung
CC mRNA, and (b) measuring the label detectably bound to each probe of
CC the array; identifying exons in a eukaryotic genome, comprising
CC (a) algorithmically predicting at least one exon from genomic sequences
CC of the eukaryote; and (b) detecting specific hybridisation of detectably
CC labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,
CC having a fragment identical to the predicted exon, the probe is included
CC in the above mentioned microarray; assigning exons to a single gene,
CC comprising (a) identifying exons from genomic sequence by the method
CC above and (b) measuring the expression of each of the exons in several
CC tissues and/or cell types using hybridisation to a single exon
CC microarrays having a probe with the exon, where a common pattern of
CC expression of the exons in the tissues and/or cell types indicates that
CC the exons should be assigned to a single gene; a peptide comprising one
CC of 12011 sequences, mentioned in the specification, or encoded by the
CC probes/open reading frames (ORF). The probes are used for gene
CC expression analysis, and for identifying exons in a gene, particularly
CC using human lung derived mRNA and for the study of lung diseases
CC such as asthma, lung cancer, chronic obstructive pulmonary disease
CC (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary
CC fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,
CC Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary
CC haemosiderosis, pulmonary histiocytosis, lymphangioleiomyomatosis,
CC pulmonary alveolar proteinosis, Karagener syndrome, fibrocystic
CC pulmonary dysplasia, primary ciliary dyskinesia, pulmonary hypertension
CC and hyaline membrane disease. The present sequence is a single exon
CC probe open reading frame of the invention.
CC Note: The sequence data for this patent did not form part
CC of the printed specification, but was obtained in electronic
CC format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 424 BP; 108 A; 94 C; 129 G; 93 T; 0 other;
Query Match 100.0%; Score 21; DB 24; Length 424;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCATCCTCACCCCTTGCTCTCA 21
Db 411 TCATCCTCACCCCTTGCTCTCA 391
RESULT 12
ABS95006
ID ABS95006 standard; cDNA; 1041 BP.
XX
XX
AC ABS95006;
XX
DT 05-JUN-2003 (first entry)
XX
XX
DE cDNA encoding human tumour rejection antigen precursor, MAGE-C3.
XX
KW TRAP; ss; tumour rejection antigen precursor; cytolytic T-cell; CTL;
KW tumour; seminoma; bladder transitional-cell carcinoma; NSCLC; adaptor;
KW head-and-neck squamous-cell carcinoma; breast carcinoma; sarcoma;
KW cutaneous melanoma; non-small cell lung cancer; gene; MAGE-C3; human;
KW chromosome Xq27.1-Xq27.3.
XX
XX Homo sapiens.
OS
PH Key Location/Qualifiers
FT CDS 1..1041
FT /*tag= a
FT /product= "MAGE-C3"
XX
PN US2002176865-A1.
XX
XX 28-NOV-2002.
PD

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XX PF 01-MAR-2002; 2002US-0085108.
XX XX
XX PR 09-FEB-2000; 2000US-0501104.
XX PR 25-APR-1997; 97US-0845528.
XX PR 24-APR-1998; 98US-0066281.
XX PR 17-DEC-1999; 99US-0468433.
XX XX
XX (LUCA/) LUCAS S.
XX PA (BOON/) BOON-FALLEUR T.
XX PI Lucas S, Boon-Falleur T;
XX DR WPI; 2003-328468/31.
XX DR P-PSDB; ABU08932.
XX XX
XX PT Novel isolated nucleic acid encoding tumor rejection antigen precursor
XX PT MAGE-C3, MAGE-B5, or MAGE-B6, useful as diagnostic probes to determine
XX PT presence of abnormal e.g., tumor cells expressing MAGE-C1, MAGE-B5 or
XX PT MAGE-B6.
XX XX
XX PS Claim 1; Fig 5; 59pp; English.
XX CC
XX CC The invention relates to an isolated nucleic acid molecule which encodes
XX CC a tumour rejection antigen precursor (TRAP) having an amino acid sequence
XX CC of a TRAP encoded by a fully defined MAGE-C3, MAGE-B5, or MAGE-B6
XX CC polynucleotide sequence. Also disclosed is a method which is useful for
XX CC determining presence of cytolytic T-cells specific for complexes of human
XX CC leukocyte antigen (HLA) and a peptide derived from the nucleic acid in a
XX CC cytotoxic T-lymphocyte (CTL)-containing sample. The nucleic acid is
XX CC useful as a diagnostic probe to determine the presence of abnormal
XX CC (tumour) cells such as seminoma, bladder transitional-cell carcinoma,
XX CC head-and-neck squamous-cell carcinoma, breast carcinoma, sarcoma,
XX CC cutaneous melanoma or non-small cell lung cancer (NSCLC) which express
XX CC MAGE-C1, MAGE-B5 or MAGE-B6. The nucleic acid is useful for diagnosing a
XX CC disorder characterised by expression of MAGE-C1, MAGE-B5 or MAGE-B6 TRAPs
XX CC or tumour rejection antigens (TRAPs). The present sequence represents the
XX CC cDNA of the gene encoding the human tumour rejection antigen precursor,
XX CC MAGE-C3, which is located on chromosome Xq27.1-Xq27.3.
XX XX
XX SQ Sequence 1041 BP; 242 A; 283 C; 242 G; 274 T; 0 other;

Query Match 100.0%; Score 21; DB 25; Length 1041;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCCTTGCTCTCA 21
Db 175 TCATCCTCACCCCTTGCTCTCA 195

RESULT 13
AAS88354
ID AAS88354 standard; cDNA; 7806 BP.
XX AC AAS88354;
XX XX
XX DT 13-FEB-2002 (first entry)
XX DE
XX DE DNA encoding novel human diagnostic protein #24158.
XX KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX XX
XX OS Homo sapiens.
XX XX WO200175067-A2.
XX PN
XX PD 11-OCT-2001.
XX XX
XX PF 30-MAR-2001; 2001WO-US08631.
XX XX
XX PF 31-MAR-2000; 2000US-0540217.
XX PF

```

```

PR 23-AUG-2000; 2000US-0649167.
XX XX
XX PA (HYSE-) HYSEQ INC.
XX XX
XX PI Dmanac RT, Liu C, Tang YT;
XX XX
XX DR WPI; 2001-639362/73.
XX DR P-PSDB; ABG24167.
XX XX
XX PT New isolated polynucleotide and encoded polypeptides, useful in
XX PT diagnostics, forensics, gene mapping, identification of mutations
XX PT responsible for genetic disorders or other traits and to assess
XX PT biodiversity.
XX XX
XX PS Claim 1; SEQ ID No 24158; 103pp; English.
XX CC
XX CC The invention relates to isolated polynucleotide (I) and
XX CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
XX CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
XX CC and gene mapping, and in recombinant production of (II). The
XX CC polynucleotides are also used in diagnostics as expressed sequence tags
XX CC for identifying expressed genes. (I) is useful in gene therapy techniques
XX CC to restore normal activity of (II) or to treat disease states involving
XX CC (III). (II) is useful for generating antibodies against it, detecting or
XX CC quantitating a polypeptide in tissue, as molecular weight markers and as
XX CC a food supplement. (II) and its binding partners are useful in medical
XX CC imaging of sites expressing (II). (I) and (II) are useful for treating
XX CC disorders involving aberrant protein expression or biological activity.
XX CC The polypeptide and polynucleotide sequences have applications in
XX CC diagnostics, forensics, gene mapping, identification of mutations
XX CC responsible for genetic disorders or other traits to assess biodiversity
XX CC and to produce other types of data and products dependent on DNA and
XX CC amino acid sequences. AAS64197-AAS94564 represent novel human
XX CC diagnostic coding sequences of the invention.
XX CC Note: The sequence data for this patent did not appear in the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences.
XX XX
XX SQ Sequence 7806 BP; 1755 A; 2185 C; 1760 G; 2106 T; 0 other;

Query Match 100.0%; Score 21; DB 23; Length 7806;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCCTTGCTCTCA 21
Db 3435 TCATCCTCACCCCTTGCTCTCA 3455

RESULT 14
AAX41050
ID AAX41050 standard; cDNA; 321 BP.
XX AC AAX41050;
XX XX
XX DT 18-JUN-1999 (first entry)
XX DE
XX DE Human secreted protein 5' EST SEQ ID NO: 262.
XX KW Human; secreted protein; EST; expressed sequence tag; diagnosis;
XX KW forensic; gene therapy; chromosome mapping; signal peptide;
XX KW upstream regulatory sequence; cytokine activity; cell proliferation;
XX KW differentiation; haematopoiesis regulation; tissue growth regulation;
XX KW reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
XX KW thrombolytic; anti-inflammatory; tumour inhibition; ds.
XX XX
XX OS Homo sapiens.
XX XX WO9906554-A2.
XX PN
XX PD 11-FEB-1999.
XX XX
XX PF 31-JUL-1998; 98WO-IB01238.
XX PF

```

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 21:05:58 ; Search time 1571 Seconds
(without alignments)
324.885 Million cell updates/sec

Title: US-10-085-108-21_COPY_175_195

Perfect score: 21

Sequence: 1 TCACTCCACCTTGCTCA 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST:*

1: em_estba:*

2: em_esthum:*

3: em_estin:*

4: em_estmu:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

8: em_esti:*

9: gb_esti:*

10: gb_est2:*

11: gb_est3:*

12: gb_est4:*

13: gb_est5:*

14: gb_est6:*

15: em_estfun:*

16: em_estom:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_pln:*

20: em_gss_vrt:*

21: em_gss_fun:*

22: em_gss_mus:*

23: em_gss_pro:*

24: em_gss_rod:*

25: em_gss_pg:*

26: em_gss_pg:*

27: em_gss_vrt:*

28: gb_gss1:*

29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	1062	12	BM547686 AGENCOURT
2	19.4	92.4	511	13	BQ496083 EST05312
3	19.4	92.4	592	29	BZ298653 CG4508.r1
4	19.4	92.4	600	28	AZ246440 RPCI-23-9

RESULT 1

BM547686

LOCUS

DEFINITION

AGENCOURT_6507236 NIH_MGC_124 Homo sapiens

5', mRNA sequence.

ACCESION

BM547686

VERSION

BM547686.1

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 1062)

NIH-MGC http://mgi.nci.nih.gov/

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished

Contact: Robert Strausberg, Ph.D.

Email: cgabbs@mail.nih.gov

Tissue Procurement: Invitrogen

cDNA Library Preparation: Life Technologies, Inc.

cDNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)

Cloning by: Agencourt Bioscience Corporation

Cloning through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: LLAM12722 row: h column: 15

1062 bp	linear	EST 20-FEB-2002
5', mRNA sequence.		
BM547686		
AGENCOURT_6507236 NIH_MGC_124 Homo sapiens		
5', mRNA sequence.		
BM547686		
BM547686.1		
GI:18781667		
EST.		
Homo sapiens		
Homo sapiens		
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;		
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
1 (bases 1 to 1062)		
NIH-MGC http://mgi.nci.nih.gov/		
National Institutes of Health, Mammalian Gene Collection (MGC)		
Unpublished		
Contact: Robert Strausberg, Ph.D.		
Email: cgabbs@mail.nih.gov		
Tissue Procurement: Invitrogen		
cDNA Library Preparation: Life Technologies, Inc.		
cDNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)		
Cloning by: Agencourt Bioscience Corporation		
Cloning through the I.M.A.G.E. Consortium/LLNL at:		
http://image.llnl.gov		
Plate: LLAM12722 row: h column: 15		
High quality sequence stop: 631.		

ALIGNMENTS

1062 bp	linear	EST 20-FEB-2002
5', mRNA sequence.		
BM547686		
AGENCOURT_6507236 NIH_MGC_124 Homo sapiens		
5', mRNA sequence.		
BM547686		
BM547686.1		
GI:18781667		
EST.		
Homo sapiens		
Homo sapiens		
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;		
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
1 (bases 1 to 1062)		
NIH-MGC http://mgi.nci.nih.gov/		
National Institutes of Health, Mammalian Gene Collection (MGC)		
Unpublished		
Contact: Robert Strausberg, Ph.D.		
Email: cgabbs@mail.nih.gov		
Tissue Procurement: Invitrogen		
cDNA Library Preparation: Life Technologies, Inc.		
cDNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)		
Cloning by: Agencourt Bioscience Corporation		
Cloning through the I.M.A.G.E. Consortium/LLNL at:		
http://image.llnl.gov		
Plate: LLAM12722 row: h column: 15		
High quality sequence stop: 631.		

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FEATURES
  source
    Location/Qualifiers
      1..1062
        /organism="Homo sapiens"
        /mol_type="mRNA"
        /db_xref="taxon:9606"
        /clone="IMAGE:5727806"
        /tissue_type="hippocampus"
        /lab_host="DH10B"
        /clone_lib="NIH_MGC_124"
        /notes="Organ: brain; Vector: pCMV-SPORT6; Site_1: EcorV
        (destroyed); Site_2: NotI; RNA source male hippocampus,
        age 27. library is oligo-dr primed and directionally
        cloned (EcorV site is destroyed upon cloning). Average
        insert size 1.4 kb, insert size range 0.9-4 kb. library is
        normalized and enriched for full-length clones and was
        constructed by C. Gruber (Invitrogen). Research Genetics
        tracking code 012."
      246 a 330 c 254 g 232 t

BASE COUNT
ORIGIN
  246 a 330 c 254 g 232 t

Query Match          100.0%; Score 21; DB 12; Length 1062;
Best Local Similarity 100.0%; Pred. No. 5.8e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATCTCACCCCTGTCTCA 21
Db 700 TCATCTCACCCCTGTCTCA 720

RESULT 2
BQ496083
LOCUS
DEFINITION
  EST053112 Pb0001 Paracoccidioides brasiliensis cDNA, mRNA sequence.
ACCESSION
  BQ496083
VERSION
  BQ496083.1 GI:24446451
KEYWORDS
  EST.
SOURCE
  Paracoccidioides brasiliensis
  Paracoccidioides brasiliensis
  Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
  Onygenales; mitosporic Onygenales; Paracoccidioides.
REFERENCE
  1 (bases 1 to 511)
  Goldman,G.H., Marques,E.R., Ribeiro,D.C.D., Bernardes,L.A., Puccia
  ,R., Travassos,L.R., Nobrega,F.G., Nobrega,M.P., Savoldi-Barbosa,M.
  , Semighini,C.P. and Goldman,M.H.
  The Paracoccidioides brasiliensis EST genome project
  Eukaryotic Cell, (2002) In press
  Contact: Gustavo Henrique Goldman
  Laboratory of Molecular Biology
  Universidade de Sao Paulo - USP - FCFRP
  Av do Cafe S/N, CEP: 14040-903, Ribeirao Preto - SP, Brazil
  Email: ggoldman@usp.br.
FEATURES
  source
    Location/Qualifiers
      1..511
        /organism="Paracoccidioides brasiliensis"
        /mol_type="mRNA"
        /db_xref="taxon:121759"
        /clone_lib="Pb0001"
      115 a 177 c 65 g 154 t

BASE COUNT
ORIGIN
  115 a 177 c 65 g 154 t

Query Match          92.4%; Score 19.4; DB 13; Length 511;
Best Local Similarity 95.2%; Pred. No. 1.9e+03;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCTCACCCCTGTCTCA 21
Db 290 TCATCTCACCCCTGTCTCA 310

RESULT 3
BZ298653/c
LOCUS
DEFINITION
  CG4508.r1 Candida glabrata Random Genomic Library Candida glabrata

```

```

genomic clone CG4508, genomic survey sequence.
ACCESSION
  BZ298653
VERSION
  BZ298653.1 GI:24442019
KEYWORDS
  GSS.
SOURCE
  Candida glabrata
  Candida glabrata
  Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
  Saccharomycetales; mitosporic Saccharomycetales; Candida.
REFERENCE
  1 (bases 1 to 592)
  Wong,S., Fares,M.A., Zimmermann,W., Butler,G. and Wolfe,K.H.
  Evidence from comparative genomics for a complete sexual cycle in
  the 'asexual' pathogenic yeast Candida glabrata
  Genome Biol. 4 (2), R10 (2003)
MEDLINE
  22508158
PUBMED
  12620120
COMMENT
  Contact: Wong S
  Department of Genetics, Smurfit Institute
  Trinity College Dublin
  Dublin 2, Ireland
  Tel: 353 1 6082319
  Fax: 353 1 6798558
  Email: swong@tcd.ie
  Class: plasmid ends.
FEATURES
  source
    Location/Qualifiers
      1..592
        /organism="Candida glabrata"
        /mol_type="genomic DNA"
        /strain="CBS 138"
        /db_xref="taxon:5478"
        /clone="CG4508"
        /clone_lib="Candida glabrata Random Genomic Library"
      209 a 95 c 160 g 128 t

BASE COUNT
ORIGIN
  209 a 95 c 160 g 128 t

Query Match          92.4%; Score 19.4; DB 29; Length 592;
Best Local Similarity 95.2%; Pred. No. 2e+03;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCTCACCCCTGTCTCA 21
Db 374 TCATCTCACCCCTGTCTCA 354

RESULT 4
AZ246440/c
LOCUS
DEFINITION
  RPCI-23-91H10-TV RPCI-23 Mus musculus genomic clone RPCI-23-91H10,
  genomic survey sequence.
ACCESSION
  AZ246440
VERSION
  AZ246440.1 GI:8559637
KEYWORDS
  GSS.
SOURCE
  Mus musculus (house mouse)
  Mus musculus
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
  1 (bases 1 to 600)
  Zhao,S., Nierman,W., Feldblyum,T., Malek,J., Shatsman,S., Akinret
  ,B., Levins,M., McGann,S., Tsegaye,G., Geer,K., Krol,M., de Jong,P.
  and Fraser,C.M.
  Mouse BAC End Sequences from Library RPCI-23
  Unpublished
  Other GSSs: RPCI-23-91H10-TV
  Contact: Shaying Zhao
  Department of Eukaryotic Genomics
  The Institute for Genomic Research
  9712 Medical Center Dr., Rockville, MD 20850, USA
  Tel: 301 838 0200
  Fax: 301 838 0208
  Email: szhao@igr.org
  Clones are derived from the mouse BAC library RPCI-23. For BAC
  library availability, please contact Pieter de Jong
  (pieter@dejong.med.buffalo.edu). Clones may be purchased from
  BACPAC Resources (http://bacpac.med.buffalo.edu/orderingframe.htm)

```

or from Resea ch Genetics (info@resgen.com). BAC end page:
http://www.tigr.org/tdb/bac_ends/mouse/bac_end_intro.html
 Plate: 91 row: H column: 10
 Seq primer: T7
 Class: BAC ends.

FEATURES

Location/Qualifiers
 1..600
 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clones="RPCI-23-91H10"
 /sex="Female"
 /lab_host="DH10B"
 /clone_lib="RPCI-23"
 /note="Organ: Kidney/Brain; Vector: pBACe3.6; Site 1:
 EcoRI; Site 2: EcoRI; Female C57BL/6J mouse kidney and/or
 brain genomic DNA was isolated and partially digested
 with a combination of EcoRI and EcoRI Methylase. Size
 selected DNA was cloned into the pBACe3.6 vector at the
 EcoRI sites. The ligation products were transformed into
 DH10B electrocompetent cells (BRL Life Technologies)."

BASE COUNT 161 a 134 c 166 g 139 t
 ORIGIN

Query Match 92.4%; Score 19.4; DB 28; Length 600;
 Best Local Similarity 95.2%; Pred. No. 2e+03;
 Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCATCCTCACCCCTGTCTCTCA 21
 |||
 Db 370 TCCTCCTCACCCCTGTCTCTCA 350

RESULT 5
 AZ247894/c
 LOCUS
 DEFINITION
 RPCI-23-91L10-TV RPCI-23 Mus musculus genomic clone RPCI-23-91L10,
 genomic survey sequence.

VERSION
 AZ247894
 KEYWORDS
 GSS.
 SOURCE
 Mus musculus (house mouse)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 1 (bases 1 to 736)
 Zhao,S., Nierman,M., Feldblyum,T., Malek,J., Shatsman,S., Akinret
 B., Levins,M., McGann,S., Teegay,G., Geer,K., Krol,M., de Jong,P.
 and Fraser,C.M.

TITLE
 Mouse BAC End Sequences from Library RPCI-23

JOURNAL
 Unpublished

COMMENT
 Other GSSs: RPCI-23-91L10.TJ
 Contact: Shaying Zhao
 Department of Eukaryotic Genomics
 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850, USA

Tel: 301 838 0200
 Fax: 301 838 0208
 Email: szhao@tigr.org

Clones are derived from the mouse BAC library RPCI-23. For BAC
 library availability, please contact Pieter de Jong
 (pieter@dejong.med.buffalo.edu). Clones may be purchased from
 BACPAC Resources (<http://bacpac.med.buffalo.edu/bacpac/orderingframe.htm>)
 or from Resea ch Genetics (info@resgen.com). BAC end page:
http://www.tigr.org/tdb/bac_ends/mouse/bac_end_intro.html
 Plate: 91 row: L column: 10

Seq primer: T7
 Class: BAC ends.

FEATURES

Location/Qualifiers
 1..736
 /organism="Mus musculus"
 /mol_type="genomic DNA"

/strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clones="RPCI-23-91L10"
 /sex="Female"
 /lab_host="DH10B"
 /clone_lib="RPCI-23"
 /note="Organ: Kidney/Brain; Vector: pBACe3.6; Site 1:
 EcoRI; Site 2: EcoRI; Female C57BL/6J mouse kidney and/or
 brain genomic DNA was isolated and partially digested
 with a combination of EcoRI and EcoRI Methylase. Size
 selected DNA was cloned into the pBACe3.6 vector at the
 EcoRI sites. The ligation products were transformed into
 DH10B electrocompetent cells (BRL Life Technologies)."

BASE COUNT 216 a 158 c 197 g 165 t
 ORIGIN

Query Match 92.4%; Score 19.4; DB 28; Length 736;
 Best Local Similarity 95.2%; Pred. No. 2.1e+03;
 Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCATCCTCACCCCTGTCTCTCA 21
 |||
 Db 373 TCCTCCTCACCCCTGTCTCTCA 353

RESULT 6
 CB118019
 LOCUS
 DEFINITION
 K-EST0164201.B1T694954 Homo sapiens cDNA clone B1T694954-9-A02 5',
 mRNA sequence.

ACCESSION
 CB118019
 VERSION
 CB118019.1 GI:27943826
 KEYWORDS
 EST.

SOURCE

Homo sapiens (human)
 Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 186)

Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
 Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
 Kim,Y.S.

TITLE
 21C Frontier Korean EST Project 2001

JOURNAL
 Unpublished

COMMENT
 Contact: Kim YS
 Genome Research Center
 Korea Research Institute of Bioscience & Biotechnology
 52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea

Tel: +82-42-860-4470
 Fax: +82-42-860-4409

Email: yongsung@mail.kribb.re.kr
 Plate: 9 row: A column: 02

High quality sequence stop: 186.

FEATURES

Location/Qualifiers
 1..186

/organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"

/clone="B1T694954-9-A02"
 /sex="M"
 /lab_host="Top10F"

/clone_lib="B1T694954"

/note="Organ: Brain; Vector: pcMS-D2; Site 1: EcoRI;
 Site 2: NotI; The poly (A) + RNA was dephosphorylated with
 bacterial alkaline phosphatase (BAP) and then decapped
 with tabacco acid pyrophosphatase (TAP). The decapped
 intact mRNA was ligated with DNA-RNA linker including
 EcoRI site by treatment of T4 RNA ligase and the first
 strand cDNA was synthesized from oligo dt-selected mRNA by
 priming with dt-tailed vector. The dt-tailed vector was
 adjusted to have about 60nt. The cDNA vector was
 circularized with E. coli DNA ligase after digestion of
 EcoRI which site is also included in vector. An RNA strand
 converted to a DNA strand by Okayama-Berg method. The

obtained cDNA vectors were used for transformation of competent cells E. coli Top10[®] by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library."

```

BASE COUNT      34 a  60 c  57 g  35 t
ORIGIN

Query Match      87.6%; Score 18.4; DB 14; Length 186;
Best Local Similarity 95.0%; Pred. No. 3.6e+03;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCCTTGCTC 20
    |||||
Db 165 TCATCCTCACCCCTTGCTC 184

```

```

RESULT 7
LOCUS AV015025/c
DEFINITION AV015025 Mus musculus 18-day embryo C57BL/6J Mus musculus cDNA
ACCESSION AV015025
VERSION AV015025.1 GI:4792017
KEYWORDS
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

```

```

REFERENCE 1 (bases 1 to 237)
AUTHORS Akahira,S., Akiyama,K., Ozawa,Y., Konno,H., Itoh,M., Aizawa,K.,
A., Hayatsu,N., Hori,F., Ishikawa,T., Itoh,M., Izawa,M., Kawai,J.,
Kikuchi,N., Kotima,Y., Matsuyama,T., Nitsuma,H., Oda,H., Owa,C.,
Sato,K., Shibata,Y., Shimamoto,Y., Shiraki,T., Sogabe,Y., Sugahara
Y., Suzuki,H., Suzuki,H., Tateo,M., Tomaru,Y., Tomimaga,N.,
Watanabe,S., Yagane,M., Yamamura,T., Yokota,T., Yoshino,M.,
Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.

```

```

TITLE RIKEN Mouse ESTs
JOURNAL Unpublished
COMMENT Contact: Chie Owa
Genome Science Laboratory
RIKEN
3-1-1 Koyadai, Tsukuba, Ibaraki 305-0074, Japan
Tel: 81-298-36-9145
Fax: 81-298-36-9098
Email: genome-res@rcl.riken.go.jp
Thermostabilization and thermoactivation of thermostable enzymes by
trehalose and its application for the synthesis of full length cDNA
(Proc. Natl. Acad. Sci. U.S.A. 95(2):520-524 (1998))
Transcriptional sequencing: A method for DNA sequencing using RNA
polymerase (Proc. Natl. Acad. Sci. U.S.A. 95(7):3455-3460 (1998))
Please visit our web site (http://genome.rtc.riken.go.jp) for
further details.

```

```

FEATURES
source
1..237
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="110057J14"
/sex="mixed"
/dev_stage="18-day embryo"
/clone_lib="Mus musculus 18-day embryo C57BL/6J"
BASE COUNT      57 a  50 c  63 g  67 t
ORIGIN

```

```

Query Match      87.6%; Score 18.4; DB 9; Length 237;
Best Local Similarity 95.0%; Pred. No. 3.8e+03;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCCTTGCTC 20
    |||||
Db 106 TCATCCTCACCCCTTGCTC 87

```

```

RESULT 8
LOCUS AA298913
DEFINITION AA298913 Testis tumor Homo sapiens cDNA 5' end, mRNA sequence.
ACCESSION AA298913
VERSION AA298913.1 GI:1951276
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

```

```

REFERENCE 1 (bases 1 to 273)
AUTHORS Adams,M.D., Kerlavage,A.R., Fleischmann,R.D., Fuldner,R.A., Bult
C., Sutton,G., Blake,J.A., Brandon,R.C., Man-Wai,C., Clayton,R.A.,
Cline,T.R., Cotton,M.D., Earle-Hughes,J., Fine,L.D., Fitzgerald
L.M., Fitzhugh,W.M., Fritchman,J.L., Geoghagen,N.S., Glodek,A.,
Gnehm,C.L., Hanna,M.C., Hedblom,E., Hinkle,P.S., Jr., Kelley,J.M.,
Kelley,J.C., Liu,L.-I., Marmaros,S.M., Merrick,J.M.,
Moreno-Palancas,R.F., McDonald,L.A., Nguyen,D.T., Pelligrino,S.M.,
Phillips,C.A., Ryder,S.E., Scott,J.L., Saudek,D.M., Shirley,R.,
Small,K.V., Spriggs,T.A., Utterback,T.R., Weidman,J.F., Li,Y.,
Bednarek,D.P., Cao,L., Cepeda,M.A., Coleman,T.A., Collins,E.J.,
Dimke,D., Feng,D.-F., Ferrie,A., Fischer,C., Hastings,G.A., He,W.W.,
Hu,J.S., Greene,J.M., Gruber,J., Hudson,P., Kim,A.K., Kozak,D.L.,
Kunsch,C., Hungjun,J., Li,H., Weisner,P.S., Olsen,H., Raymond,L.,
Wei,Y.F., Wing,J., Xu,C., Yu,G.-D., Ruben,S.M., Dillion,P.J., Fannon
M.R., Rosen,C.A., Haseitine,W.A., Fields,C., Fraser,C.M. and
Venter,J.C.

```

```

TITLE Initial assessment of human gene diversity and expression patterns
JOURNAL Nature 377 (6547 Suppl), 3-174 (1995)
MEDLINE 96026280
PUBMED 7566098
COMMENT Other ESTs: THC173596
Contact: Kerlavage, AR
Bioinformatics
The Institute for Genomic Research
9712 Medical Center Drive, Rockville, MD 20850 USA
Tel: 3018699056
Fax: 3018699423
Email: arkerlav@tigr.org
For clone availability, additional sequence and expression
information related to this EST, please check the TIGR Human Gene
Index (http://www.tigr.org/tldb/hgi/hgi.html)
Seq primer: MJ3 Reverse.
Location/Qualifiers
1..273
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="ATCC (inhost):191897"
/db_xref="taxon:9606"
/sex="male"
/dev_stage="adult"
/clone_lib="Testis tumor"
/note="Organ: testis; Vector: pBluescript SK-; Site_1:
EcoRI; Site_2: XhoI"
BASE COUNT      57 a  92 c  70 g  49 t  5 others
ORIGIN

```

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Query Match      87.6%; Score 18.4; DB 9; Length 273;
Best Local Similarity 95.0%; Pred. No. 3.9e+03;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCCTTGCTC 20
    |||||
Db 111 TCATCCTCACCCCTTGCTC 130

```

```

RESULT 9
BB032507

```

cap-trapper. cDNA was through one round of normalization to Rot = 10.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGATTCTCGAGTTAATTAATATCCCTCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI."

52 a 75 c 68 g 85 t

BASE COUNT
ORIGIN

Query Match 87.6%; Score 18.4; DB 10; Length 280;
Best Local Similarity 95.0%; Pred. No. 3.9e+03;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCTCTACCCCTTGTCTTC 20
|||||
37 TCATCTCTACCCCTTGTCTTC 56
|||||

Db

RESULT 10
AI220795

LOCUS

DEFINITION

gq02el0.xl Soares placenta 8to9weeks 2NHP8to9W Homo sapiens cDNA clone IMAGE:1758378 3', mRNA sequence.

AI220795

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 291)

NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index

Unpublished

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov

This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.

Insert Length: 1072 Std Error: 0.00

Seq primer: -40UP from Gibco

High quality sequence stop: 286.

Location/Qualifiers

1..291

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:1758378"

/dev stages="two placenta: one from 8 weeks and another from 9 weeks post conception"

/lab_host="DH10B (ampicillin resistant)"

/clone_lib="Soares placenta 8to9weeks 2NHP8to9W"

/note="Organ: placenta; Vector: pTT3D (Pharmacia) with a modified polylinker; Site 1: Not 1; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACCACTCTGAGTCGGAGCGCCGAGTTTCTTTTCTTTT 3'], double-stranded cDNA was size selected, ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pTT3 vector (Pharmacia). Library constructed by Bento Soares and M.Fatima Bonaldo."

59 a 96 c 82 g 54 t

BASE COUNT
ORIGIN

Query Match 87.6%; Score 18.4; DB 9; Length 291;
Best Local Similarity 95.0%; Pred. No. 4e+03;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCTCTACCCCTTGTCTTC 20
|||||
114 TCATCTCTACCCCTTGTCTTC 133
|||||

Db

transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5'
GAGAGAGATTCCTCGAGTTAAATTAATCCCGCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

BASE COUNT 81 a 64 c 41 g 108 t
ORIGIN

Query Match 87.6%; Score 18.4; DB 10; Length 294;
Best Local Similarity 95.0%; Pred. No. 4e+03; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCTCTCCCTTGTCCTC 20
|||||
Db 24 TCATCTCTCTCTGTCCTC 43
|||||

RESULT 12
F07446
LOCUS
DEFINITION HSC26A021 normalized infant brain cDNA Homo sapiens cDNA clone
C-26a02, mRNA sequence.
ACCESSION F07446.1 GI:673106
VERSION F07446.1
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 308)
Auffray, C., Behar, G., Bois, F., Bouchier, C., da Silva, C., Devignes
M.D., Duprat, S., Houlgatte, R., Jumeau, M.N., Lamy, B., Lorenzo, F.,
Mitchell, H., Marriage-Samson, R., Pietu, G., Pouliot, Y.,
Sebastiani-Kabaktchis, C. and Tessier, A.
IMAGE: molecular integration of the analysis of the human genome
and its expression
C. R. Acad. Sci. III, Sci. Vie 318 (2), 263-272 (1995)
95277534
7757816

TITLE
JOURNAL Genexpress-Genethon
MEDLINE Genethon Centre de recherche sur le Genome Humain
PUBMED 1, rue de l'Internationale, BP60 91002 EVRY Cedex, FRANCE
COMMENT Tel: 33169472800
Fax: 33160778698
Email: genexpress@genethon.fr
Single read
Genexpress_library_idt: C; Genexpress_sequence_idt: Y1c-26a02
Seq primer: (-21)M13 universal.

FEATURES
source
Location/Qualifiers
1..308
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="C-26a02"
/sex="female"
/tissue type="total brain"
/dev stage="3 months old"
/clone lib="normalized infant brain cDNA"
/notes="Organ: brain; Vector: lafmid BA; Site: HindIII;
Site 2: NotI; sex=female; dev stage=3 months old;
isolate=muscular atrophy patient; tissue type=total brain
; total mRNA was oligo-(dT) primed and directionally
cloned 5' -> 3' into the HindIII -> NotI sites of the
lafmid BA vector. Clone library from B Soares, Psychiatry
Dept. Columbia University, USA. Normalization_method:
Bento Soares, P.N.A.S in press"
BASE COUNT 68 a 89 c 79 g 69 t
ORIGIN 3 others

Query Match 87.6%; Score 18.4; DB 14; Length 308;
Best Local Similarity 95.0%; Pred. No. 4e+03;

BB488898 294 bp mRNA linear EST 23-JUL-2000
BB488898 RIKEN full-length enriched, 13 days embryo stomach Mus
musculus cDNA clone D330004H21 3', mRNA sequence.
BB488898
EST.
Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 294)
Konno, H., Aizawa, K., Akahira, S., Fukunishi, Y., Hara, A., Hayatsu, N.,
P., Endo, T., Fukuda, S., Ishikawa, J., Ishikawa, T., Itoh, M.,
Hirozane, T., Hori, F., Ishii, Y., Ishikawa, J., Kikuchi, N.,
Izawa, M., Kadora, K., Kagawa, I., Kai, C., Kawai, J., Kiyohara, C., Kusakabe, M.,
Kiyosawa, H., Kojima, Y., Kondo, S., Koya, S., Kurihara, C., Matsuyama, T., Miki, R., Mizuno, Y., Nakamura, M., Oda, H., Okazaki, Y.,
Ono, T., Owa, C., Saito, H., Sakai, C., Sato, K., Shibata, K., Shibata, Y.,
Shigemoto, Y., Shinagawa, A., Shiraki, T., Sogabe, Y., Sugahara, Y.,
Suzuki, H., Suzuki, H., Tagawa, A., Takahashi, F., Tominaga, N., Toya, T.,
Tsunoda, Y., Watahiki, A., Watanabe, S., Yamamura, T., Yamanaka, I.,
Yano, R., Yasunishi, A., Yokota, T., Yoshida, K., Yoshiki, A., Yoshino, M.,
Muramatsu, M. and Hayashizaki, Y.
RIKEN Mouse ESTs (Konno, H., et al.)
Unpublished
Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center (GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-resgsc.riken.go.jp,
URL: http://genome.gsc.riken.go.jp/
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N.,
Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Thermotabilization and thermoactivation of thermostable enzymes by
trehalose and its application for the synthesis of full length
cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itoh, M., Kitzunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y.,
and Hayashizaki, Y.
Automated filtration-based high-throughput plasmid preparation
system. Genome Res. 9 (5), 463-470 (1999)
Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
19-44 (1999)
Please visit our web site (<http://genome.rtc.riken.go.jp>) for
further details.

FEATURES
source
Location/Qualifiers
1..294
/organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:10090"
/clone="D530004H21"
/tissue type="stomach"
/dev stage="13 days embryo"
/lab_host="DH10B"
/clone lib="RIKEN full-length enriched, 13 days embryo
stomach"
/notes="Site 1: SalI; Site 2: BamHI; cDNA library was
prepared and sequenced in Mouse Genome Encyclopedia
Project of Genome Exploration Research Group in Riken
Genomic Sciences Center and Genome Science Laboratory in
RIKEN. Division of Experimental Animal Research in Riken
contributed to prepare mouse tissues. 1st strand cDNA was
primed with a primer [5'
GAGAGAGAGCGCGCACTCGAGTTTTTTTTTTT 3']. cDNA was
prepared by using trehalose thermo-activated reverse

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCCTCACCTTGCTC 20
 |||||
 Db 92 TCATCCTCATCCTTGCTC 111
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RESULT 13
 AI025315
 LOCUS
 DEFINITION 324 bp mRNA EST 27-AUG-1998
 3' similar to Soares testis NHT Homo sapiens cDNA clone IMAGE:1643078
 sequence.

ACCESSION
 AI025315
 VERSION
 AI025315.1 GI:3240928
 KEYWORDS
 EST.
 SOURCE
 Homo sapiens (human)

ORGANISM
 Homo sapiens
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
 1 (bases 1 to 324)
 NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index

JOURNAL
 UNPUBLISHED
 COMMENT
 Contact: Robert Strausberg, Ph.D.
 Email: cgaps-i@mail.nih.gov
 cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo
 , Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
 Insert Length: 383 Std Error: 0.00
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FEATURES
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 1..324
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 /db_xref="taxon:9606"
 /clone="IMAGE:1643078"
 /sex="male"
 /lab_host="DH10B"
 /clone_lib="Soares testis NHT"
 /notes="Vector: pT73D-Pac (Pharmacia) with a modified
 polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA
 was prepared from mRNA obtained from Clontech Laboratories
 , Inc., and primed with a Not I - oligo(dT) primer [5'
 TGTACCACTGAAGTGGAGCGCGCCCAATTTTCTTTT 3'].
 Double-stranded cDNA was ligated to Eco RI adaptors
 (Pharmacia), digested with Not I and cloned into the Not I
 and Eco RI sites of the modified pT73 vector. Library
 went through one round of normalization to Cot5, and was
 constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 51 a 93 c 82 g 98 t

ORIGIN
 Query Match 87.6%; Score 18.4; DB 9; Length 324;
 Best Local Similarity 95.0%; Pred. No. 4.1e+03;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CATCCTCACCTTGCTCA 21
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 Db 262 CATCCTCATCCTTGCTCA 281
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RESULT 14
 BM843625
 LOCUS
 DEFINITION 339 bp mRNA EST 06-MAR-2002
 K-EST0121571 S12SN216 Homo sapiens cDNA clone S12SN216-71-E10 5',
 mRNA sequence.

ACCESSION
 BM843625

BM843625.1 GI:19200034
 EST.
 SOURCE
 Homo sapiens (human)
 ORGANISM
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
 1 (bases 1 to 339)
 Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
 Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
 Kim,Y.S.
 21C Frontier Korean EST Project 2001

JOURNAL
 UNPUBLISHED
 COMMENT
 Contact: Kim YS
 Genome Research Center
 Korea Research Institute of Bioscience & Biotechnology
 52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
 Tel: +82-42-860-4470
 Fax: +82-42-860-4409
 Email: yongsung@mail.kribb.re.kr
 Plate: 71 row: E column: 10
 High quality sequence stop: 339.

FEATURES
 source
 1..339
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="S12SN216-71-E10"
 /sex="F"
 /tissue_type="Lymph node"
 /cell_type="Epithelial"
 /cell_line="SNU-216"
 /lab_host="Top10F"
 /clone_lib="S12SN216"
 /note="Organ: Stomach; Vector: pCNS; Site 1: EcoRI;
 Site 2: NotI; The poly (A)+ RNA was dephosphorylated with
 bacterial alkaline phosphatase (BAP) and then decapped
 with tobacco acid pyrophosphatase (TAP). The decapped
 intact mRNA was ligated with DNA-RNA linker including EcoR
 I site by treatment of T4 RNA ligase and the first strand
 cDNA was synthesized from oligo dT-selected mRNA by
 priming with dT-tailed vector. The dT-tailed vector was
 adjusted to have about 60nt. The cDNA vector was
 circularized with E. coli DNA ligase after digestion of
 EcoRI which site is also included in vector. An RNA strand
 converted to a DNA strand by Okayama-Berg method. The
 obtained cDNA vectors were used for transformation of
 competent cells E. coli Top10F by electroporation method.
 The cDNA libraries constructed by this method are
 full-length enriched cDNA library."

BASE COUNT 80 a 98 c 86 g 75 t

ORIGIN
 Query Match 87.6%; Score 18.4; DB 12; Length 339;
 Best Local Similarity 95.0%; Pred. No. 4.1e+03;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCCTCACCTTGCTC 20
 |||||
 Db 104 TCATCCTCATCCTTGCTC 123
 |||||

RESULT 15
 CB119380
 LOCUS
 DEFINITION 379 bp mRNA linear EST 28-JAN-2003
 K-EST0166136 L8SCKO Homo sapiens cDNA clone L8SCKO-9-B05 5', mRNA
 sequence.

ACCESSION
 CB119380
 VERSION
 CB119380.1 GI:27945184
 KEYWORDS
 EST.
 SOURCE
 Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 379)
 AUTHORS Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R.,
 Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and
 Kim,Y.S.
 TITLE 21C Frontier Korean EST Project 2001
 JOURNAL Unpublished
 COMMENT Contact: Kim YS
 Genome Research Center
 Korea Research Institute of Bioscience & Biotechnology
 52 Boeun-dong Yuseong-gu, Daejeon 305-333, South Korea
 Tel: +82-42-860-4470
 Fax: +82-42-860-4409
 Email: yongsung@mail.kribb.re.kr
 Plate: 9 row: B column: 05
 High quality sequence stop: 379.

FEATURES
 source
 1..379
 Location/Qualifiers
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="L8SCK0-9-B05"
 /sex="M"
 /cell_line="SCK"
 /lab_host="Top10F"
 /clone_lib="L8SCK0"
 /note="Organ: liver; Vector: pT73-Pac; Site_1: EcoRI;
 Site_2: NotI; The library was contributed by the Soares
 laboratory and it was constructed as described by Bonaldo,
 M.F., Lennon, G. and Soares, M.B. (1996), Genome Research
 6(9): 791-806. RNA was prepared from harvested cell
 culture."

BASE COUNT 94 a 98 c 93 g 94 t
 ORIGIN
 Query Match 87.6%; Score 18.4; DB 14; Length 379;
 Best Local Similarity 95.0%; Pred. No. 4.2e+03;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCTTGTCCTC 20
 |||||
 Db 77 TCATCCTCATCCTTGTCCTC 96

Search completed: February 19, 2004, 23:14:32
 Job time : 1575 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 21:14:23 ; Search time 46 Seconds
(without alignments)
201,501 Million cell updates/sec

Title: US-10-085-108-21_COPY_175_195

Perfect score: 21

Sequence: 1 TCATCCTCACCTTGCTCTCA 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: /cgn2_6/ptodata/1/ina/5A-COMB.seq.*
- 2: /cgn2_6/ptodata/1/ina/5B-COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A-COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B-COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/PTCUS-COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	17.8	84.8	1958	4	US-09-702-327-3
C 2	17	81.0	325	3	Sequence 3, Appli
C 3	17	81.0	325	3	Sequence 16, Appl
C 4	17	81.0	325	3	Sequence 16, Appl
C 5	17	81.0	1392	4	Sequence 1, Appli
C 6	16.8	80.0	1512	3	Sequence 8, Appli
C 7	16.8	80.0	1512	3	Sequence 8, Appli
C 8	16.8	80.0	1801	3	Sequence 6, Appli
C 9	16.8	80.0	1801	3	Sequence 6, Appli
C 10	16.8	80.0	1804	1	Sequence 1, Appli
C 11	16.8	80.0	1804	1	Sequence 1, Appli
C 12	16.8	80.0	1804	2	Sequence 1, Appli
C 13	16.8	80.0	1804	2	Sequence 1, Appli
C 14	16.8	80.0	1804	2	Sequence 1, Appli
C 15	16.8	80.0	1804	3	Sequence 1, Appli
C 16	16.8	80.0	1804	3	Sequence 1, Appli
C 17	16.8	80.0	2119	1	Sequence 1, Appli
C 18	16.8	80.0	2119	3	Sequence 1, Appli
C 19	16.8	80.0	2119	3	Sequence 1, Appli
C 20	16.8	80.0	2434	1	Sequence 3, Appli
C 21	16.8	80.0	2434	1	Sequence 3, Appli
C 22	16.8	80.0	2434	3	Sequence 3, Appli
C 23	16.8	80.0	2518	3	Sequence 3, Appli
C 24	16.8	80.0	6452	3	Sequence 9, Appli
C 25	16.2	77.1	272	4	Sequence 1834, Ap
C 26	16.2	77.1	654	4	Sequence 479, App
C 27	16.2	77.1	1052	1	Sequence 1, Appli

Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 69, Appli
Sequence 77, Appli
Sequence 382, App
Sequence 382, App
Sequence 382, App
Sequence 3, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 1, Appli
Sequence 31, Appli

US-08-314-503A-1
US-08-468-066-1
US-08-466-717-1
US-08-466-743-1
PCT-US95-12414-1
US-09-620-312D-69
US-09-620-312D-77
US-09-220-132-66
US-09-439-313-382
US-09-352-616A-382
US-09-634-920-3
US-09-514-907A-1
US-09-214-808-1
US-09-183-245-1
US-09-618-932-1
US-08-647-351B-1
US-09-326-074-1
US-09-433-699-31

ALIGNMENTS

RESULT 1
US-09-702-327-3/c
; Sequence 3, Application US/09702327
; Patent No. 6426220
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Lex M. Cowsett
; TITLE OF INVENTION: ANTISENSE MODULATION OF CALRETICULIN EXPRESSION
; FILE REFERENCE: RTS-0097
; CURRENT APPLICATION NUMBER: US/09702.327
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 3
; LENGTH: 1958
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (109)..(1362)
US-09-702-327-3

Query Match 84.8%; Score 17.8; DB 4; Length 1958;
Best Local Similarity 90.5%; Pred. No. 32;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCATCCTCACCTTGCTCTCA 21
Dy 1292 TCATCCTCACCTTGCTCTCA 1272

RESULT 2
US-09-006-353A-16/c
; Sequence 16, Application US/09006353A
; Patent No. 6261801
; GENERAL INFORMATION:
; APPLICANT: WEI, YING-FEI
; APPLICANT: YU, GUO-LIANG
; APPLICANT: GENTZ, REINER
; APPLICANT: RUBEN, STEVEN
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR RECEPTOR 5
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HUMAN GENOME SCIENCES, INC.
; STREET: 9410 KEY WEST AVENUE
; CITY: ROCKVILLE
; STATE: MD
; COUNTRY: US
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/006,353A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BROOKES, ANDERS A
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PF341
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 325 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-09-006-353A-16

Query Match 81.0%; Score 17; DB 3; Length 325;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCCTTGTC 17
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Db 225 TCATCCTCACCCCTTGTC 209

RESULT 3
US-09-573-986-16/c
Sequence 16, Application US/09573986
Patent No. 6455040
GENERAL INFORMATION:
APPLICANT: Wei, Ying-Fei
APPLICANT: NI, Jian
APPLICANT: Gentz, Reiner
APPLICANT: Ruben, Steven
TITLE OF INVENTION: Tumor Necrosis Factor Receptor 5
FILE REFERENCE: 1488.1280004
CURRENT APPLICATION NUMBER: US/09/573,986
CURRENT FILING DATE: 2000-05-18
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 16
LENGTH: 325
TYPE: DNA
ORGANISM: Homo sapiens
US-09-573-986-16

Query Match 81.0%; Score 17; DB 4; Length 325;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCCTTGTC 17
|||||
Db 225 TCATCCTCACCCCTTGTC 209

RESULT 4
US-09-006-353A-1/c
Sequence 1, Application US/09006353A
Patent No. 6261801
GENERAL INFORMATION:
APPLICANT: WEI, YING-FEI
APPLICANT: YU, GUO-LIANG
APPLICANT: GENTZ, REINER
APPLICANT: RUBEN, STEVEN
TITLE OF INVENTION: TUMOR NECROSIS FACTOR RECEPTOR 5
NUMBER OF SEQUENCES: 26

CORRESPONDENCE ADDRESS:
ADDRESSEE: HUMAN GENOME SCIENCES, INC.
STREET: 9410 KEY WEST AVENUE
CITY: ROCKVILLE
STATE: MD
COUNTRY: US
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/006,353A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BROOKES, ANDERS A
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PF341
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1392 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 183..959
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 183..260
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 261..959
US-09-006-353A-1

Query Match 81.0%; Score 17; DB 3; Length 1392;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCCTTGTC 17
|||||
Db 1326 TCATCCTCACCCCTTGTC 1310

RESULT 5
US-09-573-986-1/c
Sequence 1, Application US/09573986
Patent No. 6455040
GENERAL INFORMATION:
APPLICANT: Wei, Ying-Fei
APPLICANT: NI, Jian
APPLICANT: Gentz, Reiner
APPLICANT: Ruben, Steven
TITLE OF INVENTION: Tumor Necrosis Factor Receptor 5
FILE REFERENCE: 1488.1280004
CURRENT APPLICATION NUMBER: US/09/573,986
CURRENT FILING DATE: 2000-05-18
NUMBER OF SEQ ID NOS: 27
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 1392
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (183)..(959)
US-09-573-986-1

Query Match 81.0%; Score 17; DB 4; Length 1392;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCATCCTCACCCCTGTC 17
Db 1326 TCATCCTCACCCCTGTC 1310

RESULT 6

US-08-955-918C-8/c
; Sequence 8, Application US/08955918C
; Patent No. 6268130
; GENERAL INFORMATION:
; APPLICANT: Kleytn, Patrick, and Moore, Karen
; TITLE OF INVENTION: RP Compositions and Therapeutic and
; TITLE OF INVENTION: Diagnostic Uses Therefor
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/955,918C
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/697,766
; FILING DATE: 29-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: MNI-007CPDV2CPA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1512 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1515
; US-08-955-918C-8

Query Match 80.0%; Score 16.8; DB 3; Length 1512;
Best Local Similarity 90.0%; Pred. No. 84;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCATCCTCACCCCTGTC 20
Db 611 TCATCCTCATCTCGTCCTC 592

RESULT 7

US-08-697-766A-8/c
; Sequence 8, Application US/08697766A
; Patent No. 6399760
; GENERAL INFORMATION:
; APPLICANT: Gimeno, Carlos, Kleytn, Patrick; and Moore, Karen J.
; TITLE OF INVENTION: RP Compositions and Therapeutic and
; TITLE OF INVENTION: Diagnostic Uses Therefor

NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/697,766A
FILING DATE: 29-AUG-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Silveri, Jean M.
REGISTRATION NUMBER: 39,030
REFERENCE/DOCKET NUMBER: MNI-007
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 1512 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1512
US-08-697-766A-8

Query Match 80.0%; Score 16.8; DB 4; Length 1512;
Best Local Similarity 90.0%; Pred. No. 84;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCATCCTCACCCCTGTCCTC 20
Db 611 TCATCCTCATCTCGTCCTC 592

RESULT 8

US-08-955-918C-6/c
; Sequence 6, Application US/08955918C
; Patent No. 6268130
; GENERAL INFORMATION:
; APPLICANT: Kleytn, Patrick, and Moore, Karen
; TITLE OF INVENTION: RP Compositions and Therapeutic and
; TITLE OF INVENTION: Diagnostic Uses Therefor
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/955,918C
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/697,766

TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/829,553
FILING DATE: 28-MAR-1997
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/631,200
FILING DATE: 12-APR-1996
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-057
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-9741/8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1804 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 139..1653
US-08-829-553-1

Query Match 80.0%; Score 16.8; DB 1; Length 1804;
Best Local Similarity 90.0%; Pred. No. 86;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCTTGCTCCTC 20
Db 749 TCATCCTCACCCTTGCTCCTC 730

RESULT 12
US-08-922-267A-1/c
Sequence 1, Application US/08922267A
Patent No. 5861239
GENERAL INFORMATION:
APPLICANT: Kieyn, Patrick W.
APPLICANT: Moore, Karen J.
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
NUMBER OF SEQUENCES: 82
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/922,267A
FILING DATE: 2-SEP-1997
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/829,553
FILING DATE: 28-MAR-1997
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/631,200
FILING DATE: 12-APR-1996
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-085
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-9741/8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1804 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 139..1653
US-08-922-267A-1

Query Match 80.0%; Score 16.8; DB 2; Length 1804;
Best Local Similarity 90.0%; Pred. No. 86;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCTTGCTCCTC 20
Db 749 TCATCCTCACCCTTGCTCCTC 730

RESULT 13
US-08-936-707A-1/c
Sequence 1, Application US/08936707A
Patent No. 5871931
GENERAL INFORMATION:
APPLICANT: Kieyn, Patrick W.
APPLICANT: Moore, Karen J.
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/936,707A
FILING DATE: 24-SEP-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-100
TELEPHONE: (212) 790-9090

TELEFAX: (212) 869-9741/8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1804 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 139..1653
US-08-936-707A-1

Query Match 80.0%; Score 16.8; DB 2; Length 1804;
Best Local Similarity 90.0%; Pred. No. 86;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCATCCTCACCTTGTCCTC 20
Db 749 TCATCCTCATCCTCGTCCTC 730

RESULT 14
US-08-936-706A-1/c
Sequence 1, Application US/08936706A
Patent No. 5876919
GENERAL INFORMATION:
APPLICANT: Klevn, Patrick W.
APPLICANT: Moore, Karen J.
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/936,706A
FILING DATE: 24-SEP-1997
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-099
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-9741/8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1804 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 139..1653
US-08-936-706A-1

Query Match 80.0%; Score 16.8; DB 2; Length 1804;
Best Local Similarity 90.0%; Pred. No. 86;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCATCCTCACCTTGTCCTC 20
Db 749 TCATCCTCATCCTCGTCCTC 730

RESULT 15

US-09-248-203-1/c
Sequence 1, Application US/09248203
Patent No. 6043346
GENERAL INFORMATION:
APPLICANT: Klevn, Patrick W.
APPLICANT: Moore, Karen J.
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
TITLE OF INVENTION: DIAGNOSIS OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/248,203
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/936,707
FILING DATE: 24-SEP-1997
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7853-100
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-9741/8864
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1804 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 139..1653
US-09-248-203-1

Query Match 80.0%; Score 16.8; DB 3; Length 1804;
Best Local Similarity 90.0%; Pred. No. 86;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCATCCTCACCTTGTCCTC 20
Db 749 TCATCCTCATCCTCGTCCTC 730

Search completed: February 19, 2004, 23:16:13
Job time : 48 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 22:22:13 ; Search time 194 Seconds
(without alignments)
398.744 Million cell updates/sec

Title: US-10-085-108-21_COPY_175_195

Perfect score: 21

Sequence: 1 TCACTCTCACCTTGCTCA 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2449703 seqs, 1841816367 residues

Total number of hits satisfying chosen parameters: 4899406

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

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3: /cgn2_6/ptodata/1/pubna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/1/pubna/US06_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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C 4	21	100.0	1041	14	Sequence 100997, A
C 5	18.4	87.6	449	11	Sequence 21, Appl
C 6	18.4	87.6	772	15	Sequence 4056, Ap
C 7	18.4	87.6	852	10	Sequence 1761, Ap
C 8	18.4	87.6	1840	13	Sequence 388, App
C 9	18.4	87.6	1840	14	Sequence 99044, A
C 10	18.4	87.6	2522	12	Sequence 99044, A
C 11	17.8	84.8	431	11	Sequence 1604, Ap
C 12	17.8	84.8	635	13	Sequence 15180, A
C 13	17.8	84.8	635	13	Sequence 17261, A
C 14	17.8	84.8	635	14	Sequence 313997, A
C 15	17.8	84.8	635	14	Sequence 77261, A
C 16	17.8	84.8	635	14	Sequence 313997, A

ALIGNMENTS

RESULT 1

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US-09-864-761-21436/c
; Sequence 21436, Application US/09864761
; Patent NO. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aescmca-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30

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Sequence 7, Appli
Sequence 35, Appli
Sequence 265, App
Sequence 13, Appl
Sequence 3, Appli
Sequence 1542, Ap
Sequence 4009, Ap
Sequence 16, Appl
Sequence 229451,
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Sequence 164807,
Sequence 164808,
Sequence 164807,
Sequence 164808,
Sequence 1, Appli
Sequence 148, App
Sequence 28709, A
Sequence 14292, A
Sequence 10238, A
Sequence 11416, A
Sequence 57249, A
Sequence 8033, Ap

```

RESULT 2
US-10-027-632-100997/c
; Sequence 100997, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 100997
; LENGTH: 921

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RESULT 4
US-10-085-108-21
Sequence 21, Application US/10085108
Publication No. US20020176865A1
GENERAL INFORMATION:
APPLICANT: LUCAS, Sophie; BOON-FALLEUR, Thierry
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULES CODING
FOR
TUMOR REJECTION ANTIGEN PRECURSORS OF N
MAGE-B FAMILIES AND USES THEREOF
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:

MEDIUM TYPE: diskette, 3.5 inch, 360 kb storage
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/085,108
FILING DATE: 01-Mar-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/501,104
FILING DATE: 09-Feb-2000
APPLICATION NUMBER: 09/468,433
FILING DATE: December 17, 1999
APPLICATION NUMBER: 09/066,281
FILING DATE: April 24, 1998
APPLICATION NUMBER: 08/845,528
FILING DATE: April 25, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Mary Anne Schofield
REGISTRATION NUMBER: 36,669
REFERENCE/DOCKET NUMBER: LUD 5611.1 JEL/MAS
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3100
TELEFAX: (212) 318-3400
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 1041 base pairs
TYPE: nucleic acid
STRANDEDNESS: SINGLE
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 21:
US-10-085-108-21

Query Match 100.0%; Score 21; DB 14; Length 1041;
Best Local Similarity 100.0%; Pred. No. 6.7;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCCTTGCTCTCA 21
|||||
DB 175 TCATCCTCACCCCTTGCTCTCA 195

RESULT 5

US-09-918-995-4056
Sequence 4056, Application US/09918995
Publication No. US20030073623A1
GENERAL INFORMATION:
APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
FROM VARIOUS CDNA LIBRARIES
FILE REFERENCE: 20411-756
CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
NUMBER OF SEQ ID NOS: 38054
SOFTWARE: Fast-Seq for Windows Version 3.0
SEQ ID NO 4056
LENGTH: 449
TYPE: DNA
ORGANISM: Homo sapiens
US-09-918-995-4056

Query Match 87.6%; Score 18.4; DB 11; Length 449;
Best Local Similarity 95.0%; Pred. No. 94;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCCTTGCTCTC 20
|||||
DB 89 TCATCCTCACCCCTTGCTCTC 108

RESULT 6

Query Match 87.6%; Score 18.4; DB 10; Length 852;
Best Local Similarity 95.0%; Pred. No. 90;

US-10-106-698-1761/c
Sequence 1761, Application US/10106698
Publication No. US20030109690A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
FILE REFERENCE: PA005P1
CURRENT APPLICATION NUMBER: US/10/106,698
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US 60/157,137
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: US 60/163,280
PRIOR FILING DATE: 1999-11-03
NUMBER OF SEQ ID NOS: 8564
SOFTWARE: PatentIn Ver. 3.0
SEQ ID NO 1761
LENGTH: 772
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (214)..(214)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc feature
LOCATION: (766)..(766)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: misc feature
LOCATION: (772)..(772)
OTHER INFORMATION: n equals a,t,g, or c
US-10-106-698-1761

Query Match 87.6%; Score 18.4; DB 15; Length 772;
Best Local Similarity 95.0%; Pred. No. 91;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CATCCTCACCCCTTGCTCTCA 21
|||||
DB 491 CATCCTCATCCTTGCTCTCA 472

RESULT 7

US-09-764-864-388
Sequence 388, Application US/09764864
Patent No. US20020132753A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PT223
CURRENT APPLICATION NUMBER: US/09/764,864
CURRENT FILING DATE: 2001-01-17
Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 1792
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 388
LENGTH: 852
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (621)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: SITE
LOCATION: (834)
OTHER INFORMATION: n equals a,t,g, or c
NAME/KEY: SITE
LOCATION: (836)
OTHER INFORMATION: n equals a,t,g, or c
US-09-764-864-388

Query Match 87.6%; Score 18.4; DB 10; Length 852;
Best Local Similarity 95.0%; Pred. No. 90;


```
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCATCCTCACCCCTTGCTCTCA 21
    |||||
Db 201 TCATCCTCATCTTGCTCTCA 181

RESULT 12
US-10-027-632-77261/c
; Sequence 77261, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77261
; LENGTH: 635
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-77261

Query Match 84.8%; Score 17.8; DB 13; Length 635;
Best Local Similarity 90.5%; Pred. No. 1.7e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCATCCTCACCCCTTGCTCTCA 21
    |||||
Db 262 TCATCCTCACCCCTTGCTCTCA 242

RESULT 13
US-10-027-632-313997/c
; Sequence 313997, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
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; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 313997
; LENGTH: 635
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-313997

Query Match 84.8%; Score 17.8; DB 13; Length 635;
Best Local Similarity 90.5%; Pred. No. 1.7e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCATCCTCACCCCTTGCTCTCA 21
    |||||
Db 262 TCATCCTCACCCCTTGCTCTCA 242

RESULT 14
US-10-027-632-77261/c
; Sequence 77261, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77261
; LENGTH: 635
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-77261

Query Match 84.8%; Score 17.8; DB 14; Length 635;
Best Local Similarity 90.5%; Pred. No. 1.7e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCATCCTCACCCCTTGCTCTCA 21
    |||||
Db 262 TCATCCTCACCCCTTGCTCTCA 242

RESULT 15
US-10-027-632-313997/c
; Sequence 313997, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
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; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 313997
; LENGTH: 635
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-313997

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Query Match      84.8%; Score 17.8; DB 14; Length 635;
Best Local Similarity 90.5%; Pred.No. 1.7e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy      1 TCATCCTCACCCCTGTCTCA 21
        |||||
Db      262 TCATCCTCACCCCTGTCTCA 242

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Search completed: February 20, 2004, 00:50:04
Job time : 196 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 23:14:43 ; Search time 171 Seconds
(without alignments)
331.510 Million cell updates/sec

Title: US-10-085-108-21_COPY_175_195

Perfect score: 21

Sequence: 1 TCATCCTCACCTTGCTCA 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 1588498

Minimum DB seq length: 0

Maximum DB seq length: 21

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_19Jun03.*

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3: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT.*
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17: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1996.DAT.*
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22: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT.*
23: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.*
24: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*
25: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2003.DAT.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	21	25	ABX95021
2	15.8	75.2	20	22	AA32581
c	14.4	68.6	20	22	AA16687
c	14.4	68.6	20	22	AA19679
5	14.2	67.6	20	24	AA24940
c	14	66.7	20	21	AAA07645
7	13.4	63.8	19	21	AAAT9801
8	13.4	63.8	20	21	AAAT9799
					Human MAGE-C3 expr
					Human nucleolin ph
					Nucleotide sequenc
					Heat shock protein
					Antisense primer,
					HERG gene exon 11/
					Hepatitis B virus
					Hepatitis B virus

9	13.4	63.8	20	21	AAA79800	Hepatitis B virus	
10	13.4	63.8	21	21	AAZ76077	Human biallelic ma	
11	13.2	62.9	20	22	AAF55056	PCR primer used to	
C	12	13.2	62.9	20	25	ABT19438	Aspergillus fumiga
	13	12.8	61.0	17	24	ABV90153	Human POSHL1 scann
C	14	12.8	61.0	17	24	ABV90154	Human POSHL1 scann
C	15	12.8	61.0	20	21	AAA79747	Hepatitis B virus
C	16	12.8	61.0	20	21	AAA79748	Hepatitis B virus
17	12.8	61.0	20	22	AAAC81362	Human Y-box bindin	
18	12.8	61.0	20	24	AAAD39529	Human calreticulin	
19	12.8	61.0	21	19	AAAX09234	Human biallelic po	
C	20	12.8	61.0	21	19	AAV35465	Primer for human h
C	21	12.8	61.0	21	21	AAZ75280	Human biallelic ma
22	12.6	60.0	20	20	AAAX90361	Human p53 gene rev	
23	12.6	60.0	20	20	AAAX90375	Human p53 gene rev	
24	12.6	60.0	20	20	AAAX90389	Human p53 gene rev	
25	12.6	60.0	20	22	AAAC92590	Human nucleolin ph	
26	12.6	60.0	20	24	ABA81915	Rat G-protein sero	
27	12.6	60.0	20	25	ABZ77254	Antisense oligonuc	
C	28	12.6	60.0	21	9	AAAG2113	Probe for DNA enco
C	29	12.6	60.0	21	19	AAV57673	Exon 6 of an ENAC
30	12.6	60.0	21	24	ABX97284	Human NOV-associat	
C	31	12.4	59.0	17	24	ABV90151	Human POSHL1 scann
C	32	12.4	59.0	17	24	ABV90152	Human POSHL1 scann
33	12.4	59.0	18	22	AAH47580	Human Her-3 mRNA i	
C	34	12.4	59.0	19	16	AAAT00705	Human trkC recepto
35	12.4	59.0	19	21	AAA79802	Hepatitis B virus	
C	36	12.4	59.0	19	21	AAZ88855	Hepatitis B virus
C	37	12.4	59.0	20	22	AAAC91653	Human angiotensino
C	38	12.4	59.0	20	22	AAAC91657	Human angiotensino
39	12.4	59.0	20	25	ABZ23815	EGFR mRNA inhibiti	
C	40	12.4	59.0	21	17	AAAT31713	Campylobacter fetu
41	12.4	59.0	21	19	AAV57677	Exon 8 of an ENAC	
C	42	12.2	58.1	17	24	ABN08085	Human GDMLP-1 17-m
C	43	12.2	58.1	17	24	ABN08086	Human GDMLP-1 17-m
C	44	12.2	58.1	17	24	ABN08406	Human GDMLP-1 17-m
C	45	12.2	58.1	17	24	ABN08407	Human GDMLP-1 17-m

ALIGNMENTS

RESULT 1	
ABX95021	
ID	ABX95021 standard; DNA; 21 BP.
XX	ABX95021;
XX	
DT	05-JUN-2003 (first entry)
XX	
XX	Human MAGE-C3 expression pattern anlalysis RT-PCR sense primer.
XX	
XX	TRAP; ss; tumour rejection antigen precursor; cytolytic T-cell; CTL;
KW	tumour; seminoma; bladder transitional-cell carcinoma; NSCLC; adaptor;
KW	head-and-neck squamous-cell carcinoma; breast carcinoma; sarcoma;
KW	cutaneous melanoma; nonsmall cell lung cancer; RT-PCR; primer; MAGE-C3;
KW	human; reverse transcription.
XX	
OS	Homo sapiens.
XX	
US	US2002176865-A1.
PN	
XX	
XX	28-NOV-2002.
PD	
XX	
XX	01-MAR-2002; 2002US-0085108.
XX	
XX	09-FEB-2000; 2000US-0501104.
PR	25-APR-1997; 97US-0845528.
PR	24-APR-1998; 98US-0062281.
PR	17-DEC-1999; 99US-0468433.
XX	
PA	(IUC)/ LUCAS S.
PA	(BOON)/ BOON-FALLEUR T.

ALIGNMENTS

RESULT 1
ABX95021
ID ABX95021 standard; DNA; 21 BP.

AC ABX95021;

XX ABX95021;

XX 05-JUN-2003 (first entry)

DT Human MAGE-C3 expression pattern analysis RT-PCR sense primer.

XX TRAP; ss; tumour rejection antigen precursor; cytolytic T-cell; CTL;

XX tumour; seminoma; bladder transitional-cell carcinoma; NSCLC; adaptor;

XX head-and-neck squamous-cell carcinoma; breast carcinoma; sarcoma;

XX cutaneous melanoma; non-small cell lung cancer; RT-PCR; primer; MAGE-C3;

XX human; reverse transcription.

XX Homo sapiens.

XX US2002176865-A1.

XX 28-NOV-2002.

XX 01-MAR-2002; 2002US-0085108.

XX 09-FEB-2000; 2000US-0501104.

PR 25-APR-1997; 97US-0845528.

PR 24-APR-1998; 98US-0066281.

PR 17-DEC-1999; 99US-0468433.

XX (LUCA/) LUCAS S.

PA (BOON/) BOON-FALLEUR T.

```

XX Lucas S, Boon-Falleur T;
PI WPI; 2003-328468/31.
XX
XX Novel isolated nucleic acid encoding tumor rejection antigen precursor
PT MAGE-C3, MAGE-B5, or MAGE-B6, useful as diagnostic probes to determine
PT presence of abnormal e.g., tumor cells expressing MAGE-C1, MAGE-B5 or
PT MAGE-B6
XX
XX Example 12; Page 13; 59pp; English.
XX
XX The invention relates to an isolated nucleic acid molecule which encodes
CC a tumour rejection antigen precursor (TRAP) having an amino acid sequence
CC of a TRAP encoded by a fully defined MAGE-C3, MAGE-B5, or MAGE-B6
CC polynucleotide sequence. Also disclosed is a method which is useful for
CC determining presence of cytolytic T-cells specific for complexes of human
CC leukocyte antigen (HLA) and a peptide derived from the nucleic acid in a
CC cytotoxic T-lymphocyte (CTL)-containing sample. The nucleic acid is
CC useful as a diagnostic probe to determine the presence of abnormal
CC (tumour) cells such as seminoma, bladder transitional-cell carcinoma,
CC head-and-neck squamous-cell carcinoma, breast carcinoma, sarcoma,
CC cutaneous melanoma or non-small cell lung cancer (NSCLC) which express
CC MAGE-C1, MAGE-B5 or MAGE-B6. The nucleic acid is useful for diagnosing a
CC disorder characterised by expression of MAGE-C1, MAGE-B5 or MAGE-B6 TRAPs
CC or tumour rejection antigens (TRAS). The present sequence represents the
CC human MAGE-C3 expression pattern analysis reverse transcription (RT)-PCR
CC sense primer.
XX
XX Sequence 21 BP; 3 A; 10 C; 1 G; 7 T; 0 other;
SQ
Query Match 100.0%; Score 21; DB 25; Length 21;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCATCCTCACCCCTTGCTCTCA 21
Db 1 TCATCCTCACCCCTTGCTCTCA 21
RESULT 2
AAC92581
ID AAC92581 standard; DNA; 20 BP.
XX
XX AAC92581;
AC
XX
XX 27-MAR-2001 (first entry)
DT
XX
XX Human nucleolin phosphorothioate antisense oligonucleotide, SEQ ID NO:31.
DE
XX Human nucleolin; P92; C23; phosphoprotein; ribosome biogenesis;
KW ribosome transport; cytokinesis; nucleogenesis; cell proliferation;
KW cell growth; transcriptional repression; replication;
KW signal transduction; chromatin decondensation; Ag-NOR family;
KW nucleolin antibody; systemic connective tissue disease; SLE;
KW systemic lupus erythematosus;
KW scleroderma-like chronic graft versus host disease;
KW expression inhibition; tumour formation; cancer; inflammation;
KW immune disorder; phosphorothioate; antisense oligonucleotide; ss.
XX
XX Homo sapiens.
OS
XX
XX US6165786-A.
PN
XX
XX 26-DEC-2000.
PD
XX
XX 03-NOV-1999; 99US-0433699.
PF
XX
XX 03-NOV-1999; 99US-0433699.
PR
XX
XX (ISIS-) ISIS PHARM INC.
PA
XX
XX Bennett CF, Cowsett LM;
PI

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XX WPI; 2001-079848/09.
XX
XX Novel antisense compound targeted to human nucleolin which specifically
PT hybridizes with and inhibits the expression of human nucleolin, useful
PT for modulating the expression of nucleolin in cells
XX
XX Example 15; Column 41-42; 41pp; English.
XX
XX Sequences AAC92560-C92639 represent antisense oligonucleotides
CC targeted to the human nucleolin gene, which inhibit its expression.
CC The antisense oligonucleotides were designed to target different
CC regions of the human nucleolin mRNA, and were analysed for their effect
CC on nucleolin mRNA levels by quantitative real-time PCR. Nucleolin (also
CC known as P92 or C23) is the most abundant nucleolar phosphoprotein in
CC actively growing cells. Nucleolin primarily participates in ribosome
CC biogenesis and transport of ribosomal components, being able to
CC transiently bind to pre-ribosomes in the nucleolus via a
CC ribonucleoprotein consensus sequence. However, it has also been shown to
CC be involved in cytokinesis, nucleogenesis, cell proliferation and
CC growth, transcriptional repression, replication, signal transduction,
CC and chromatin decondensation. Nucleolin is a member of the Ag-NOR
CC (active ribosomal gene located in the nucleolar organiser region) family
CC of proteins which are markers of active ribosomal genes, and whose
CC expression is associated with the prediction of tumour growth rate. The
CC presence of antibodies against nucleolin are associated with systemic
CC connective tissue diseases such as systemic lupus erythematosus (SLE)
CC and scleroderma-like chronic graft versus host disease. The
CC oligonucleotides of the invention are useful for diagnosis, prevention
CC and treatment of conditions associated with nucleolin expression, such as
CC tumour formation, immune disorders and inflammation.
XX
XX Sequence 20 BP; 2 A; 9 C; 1 G; 8 T; 0 other;
SQ
Query Match 75.2%; Score 15.8; DB 22; Length 20;
Best Local Similarity 89.5%; Pred. No. 1.9e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 TCATCCTCACCCCTTGCTCT 19
Db 2 TCATCCTCACCCCTTGCTCT 20
RESULT 3
AAI66887/C
ID AAI66887 standard; DNA; 20 BP.
XX
XX AAI66887;
AC
XX
XX 07-JAN-2002 (first entry)
DT
XX
XX Nucleotide sequence of primer seq Id No. 27.
DE
XX Nucleic acid amplification; hybridization assay; interaction assay;
KW expression cloning; PCR primer; ss.
XX
XX Synthetic.
OS
XX
XX WO200171027-A2.
PN
XX
XX 27-SEP-2001.
PD
XX
XX 23-MAR-2001; 2001WO-BP03311.
PF
XX
XX 24-MAR-2000; 2000EP-0106450.
PR
XX
XX (MICR-) MICROMET AG.
PA
XX
XX Zohlnhoefer D, Klein C;
PI
XX
XX WPI; 2001-611514/70.
XX
XX A method for the amplification of mRNA from a sample, e.g. for the
PI

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PT preparation of in vitro surrogates for pathologically modified cells or
XX tissues -

PS Examples; Page 170; 170pp; English.

XX
CC The invention provides a novel method for the amplification of mRNA from
CC a sample. The method comprises (1) generating cDNA from polyadenylated
CC RNA employing at least 1 primer hybridizing to the polyadenylated RNA and
CC comprising a 5' poly(C) or a 5' poly(G) flank; (2) (either): (a)
CC (optionally): (i) (if present) removing non-hybridized, surplus primer(s)
CC and/or surplus dNTPs; (ii) 3' tailing of the generated cDNA with a poly
CC (G) tail when in step (1) primer(s) comprising a 5' poly(C) flank was/
CC were employed or a poly(C) tail when in step (1) primer(s) comprising a
CC 5' poly(G) flank was/were employed; or (b) (optionally) 3' tailing of the
CC generated cDNA with a poly(G) tail when in step (1) primer(s) comprising
CC a 5' poly(C) flank was/were employed or a poly(C) tail when in step (1)
CC primer(s) comprising a 5' poly(G) flank was/were employed using an RNA-
CC ligase, irrespective of the presence or absence of surplus primer(s) and
CC /or surplus dNTPs; and (3) amplifying the tailed cDNA with a primer
CC hybridizing to the tails generated in step (2a) or (2b). The amplified
CC cDNA obtained may be used for in vitro and/or in vivo expression and
CC preparation of mRNA transcripts (which may then be used in hybridization
CC assays (comprising hybridization to oligonucleotide arrays, cDNA arrays
CC and/or PNA arrays) and/or interaction assays (comprising interactions
CC with carbohydrates, lectins, ribozymes, proteins, peptides, antibodies
CC and/or aptamers)) and for sequence specific PCR, cDNA cloning,
CC subtractive hybridization cloning and/or expression cloning. Sequences
CC AA166876-890 represent primers used in the method of the invention.

XX Sequence 20 BP; 6 A; 3 C; 8 G; 3 T; 0 other;

XX Query Match 68.6%; Score 14.4; DB 22; Length 20;
XX Best Local Similarity 93.8%; Pred. No. 7.1e+03;
XX Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCTTGT 16

Db 17 TCATCCTCAGCCTTGT 2

RESULT 4

AA019679/c

ID AAD19679 standard; DNA; 20 BP.

XX

XX AAD19679;

XX

XX 18-DEC-2001 (first entry)

XX

DE Heat shock protein 70B PCR primer #1 related to the invention.

XX

XX Inhibitor; interferon-gamma; IFN-gamma signalling pathway; therapy;
XX restenosis; coronary artery; carotid artery; femoralis artery;
XX aorta-coronary vein bypass; arterial bypass; venous bypass;
XX balloon angioplasty; stent implantation; vasotrophic; PCR primer; ss.

XX Unidentified.

OS

XX WO200170953-A2.

XX

XX 27-SEP-2001.

XX

XX 23-MAR-2001; 2001WO-EP03312.

XX

XX 24-MAR-2000; 2000EP-0106468.

XX

XX (MICR-) MICROMET AG.

XX

PI Zohlhoefer D, Baeuerle P, Klein C, Neumann F;

XX

XX WPI; 2001-616404/71.

XX

XX Use of an inhibitor of the interferon-gamma signaling pathway for

PT preparation of a pharmaceutical composition useful in the treatment or

PT prevention of restenosis -

XX

PS Example 5; Page 55; 151pp; English.

XX

CC The present invention relates to the use of an inhibitor of the
CC interferon-gamma (IFN-gamma) signalling pathway for the preparation of
CC a pharmaceutical composition for the treatment or prevention of
CC restenosis. The inhibitor is useful for the preparation of a
CC pharmaceutical composition useful in treating or preventing restenosis
CC which include restenosis of coronary arteries, carotid arteries,
CC femoralis arteries, aorta-coronary vein bypass, arterial bypass,
CC and/or venous bypass; and restenotic modification, where prevention
CC of restenotic modification is done before, during and/or after balloon
CC angioplasty and/or stent implantation and the restenosis or restenotic
CC modification is in-stent restenosis; and for treating and preventing
CC restenosis in a subject preferably human. The present sequence is a
CC heat shock protein 70B PCR primer which is used in aberrant gene
CC expression in human restenotic tissue used in the exemplification
CC of the invention.

XX Sequence 20 BP; 6 A; 3 C; 8 G; 3 T; 0 other;

XX Query Match 68.6%; Score 14.4; DB 22; Length 20;

XX Best Local Similarity 93.8%; Pred. No. 7.1e+03;

XX Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATCCTCACCCTTGT 16

Db 17 TCATCCTCAGCCTTGT 2

RESULT 5

AA024940

ID AAD24940 standard; DNA; 20 BP.

XX

XX AAD24940;

XX

XX 12-MAR-2002 (first entry)

XX

DE Antisense primer, to analyse human P28 alpha gene expression modulation.

XX

XX Human; growth inhibitory gene; retinoid; retinoic acid response element;
XX RARE site; therapy; promyelocytic leukaemia; cancer chemoprevention;
XX cytostatic; proteasome activator PA28 subunit alpha; PA28alpha gene;
XX PCR primer; ss.

XX Homo sapiens.

OS

XX WO200192578-A2.

XX

XX 06-DEC-2001.

XX

XX 25-MAY-2001; 2001WO-US17161.

XX

XX 26-MAY-2000; 2000US-207535P.

XX

XX (UNII) UNIV ILLINOIS FOUND.

XX

XX Roninson IB, Dokmanovic M, Chang B;

XX

XX WPI; 2002-075474/10.

XX

XX Expression construct encoding cellular genes, under control of a
XX promoter regulated by retinoids and cells comprising the construct for
XX identifying compounds that induce expression of the genes useful in
XX treating cancer -

XX Example 1; Page 19; 64pp; English.

XX

XX The patent discloses growth inhibitory genes induced by retinoids. The
XX invention also relates to recombinant expression constructs that express
XX a reporter gene under the transcriptional control of a promoter for a
XX gene which is expressed by retinoid induction. The promoter does not

CC contain a retinoic acid response elements (RARE) site. The invention
CC further relates to reagents and methods for identifying compounds other
CC than retinoids that modulate the expression of cellular genes. These
CC compounds are useful for treating cancers such as promyelocytic leukaemia
CC and cancer chemoprevention. The present DNA sequence is a PCR primer
CC which is used for analysing human proteasome activator PA28 subunit
CC alpha (PA28alpha) gene expression modulation by treatment with retinoic
CC acid.
XX
SQ Sequence 20 BP; 1 A; 10 C; 0 G; 9 T; 0 other;

Query Match 67.6%; Score 14.2; DB 24; Length 20;
Best Local Similarity 84.2%; Pred. No. 9.6e+03;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 TCATCCTCACCCCTTGCTCT 19
| | | | | | | | | | | | | | | | | |
Db 2 TCATCCTCACCCCTTGCTCT 20

RESULT 6

AAA07645/c

ID AAA07645 standard; DNA; 20 BP.

XX AC AAA07645;

XX DT 19-JUN-2000 (first entry)

XX DE HERG gene exon 11/intron 11 junction sequence.

XX KW HERG; mutation; long QT syndrome; LQT syndrome; gene therapy;

XX KW human; ss.

XX OS Homo sapiens.

XX PN WO200006772-A1.

XX PD 10-FEB-2000.

XX PF 20-JUL-1999; 99WO-US16337.

XX PR 27-JUL-1998; 98US-0122847.

XX PR 06-JAN-1999; 99US-0226012.

XX PA (UTAH) UNIV UTAH RES FOUND.

XX PI Keating MT, Splawski I;

XX DR WPI; 2000-195319/17.

XX PT New isolated mutant HERG nucleic acids, useful for developing products
XX for the diagnosis, prevention and treatment of long QT syndrome -
XX
XX Example 8; Page 71; 163pp; English.

CC The invention relates to a HERG protein having a mutation compared to
CC wild-type HERG, and is useful for developing products for the diagnosis,
CC prevention and treatment of long QT (LQT) syndrome. The products and
CC methods can be used for the diagnosis of subjects with LQT syndrome.
CC They can also be used to screen for drugs for treating or preventing LQT
CC syndrome. The HERG nucleic acids can also be used for gene therapy and
CC HERG peptides can be used for peptide therapy. Sequences AAA07624-653
CC represent intron/exon junction sequences of the HERG gene.
XX
SQ Sequence 20 BP; 5 A; 3 C; 11 G; 1 T; 0 other;

Query Match 66.7%; Score 14; DB 21; Length 20;
Best Local Similarity 100.0%; Pred. No. 1e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CCTCACCCCTTGCTCC 18
| | | | | | | | | | | | | | | | | |
Db 16 CCTCACCCCTTGCTCC 3

RESULT 7

AAA79801

ID AAA79801 standard; DNA; 19 BP.

XX AC AAA79801;

XX DT 20-NOV-2000 (first entry)

XX DE Hepatitis B virus related oligonucleotide probe #64.

XX KW Hepatitis B virus; HBV; Hepatitis A virus; HAV; probe; detection;

XX KW mutation; high-density gene chip; ss.

XX OS Hepatitis B virus.

XX PN CN1252452-A.

XX PD 10-MAY-2000.

XX PF 24-SEP-1999; 99CN-0114460.

XX PR 24-SEP-1999; 99CN-0114460.

XX PA (UYDO-) UNIV DONGNAN.

XX PI Sun X, Lu Z, Wang Y;

XX DR WPI; 2000-443233/39.

XX PT High-density gene chip making process -

XX PS Example 1; Fig 15; 19pp; Chinese.

CC The present invention describes a method which comprises making a high-
CC density gene chip, specifically for making high-density micro-array of
CC oligonucleotide probes. An oligonucleotide probe selecting process to
CC seek preferentially length variable and coverage variable probes is
CC provided to ensure identical cross melting temperature of probes to the
CC maximum limit, and this can make the cross control of gene chip
CC relatively simple and raise the reliability of the gene chip detecting
CC results. The process proposes a specific probe selection method for
CC detecting target sequence directly, detecting mutation in both specific
CC and non-specific sites and a probe overall arrangement scheme. AAA79738
CC to AAA80201 represent oligonucleotide probe sequences which are used in
CC examples from the present invention.
XX
SQ Sequence 19 BP; 5 A; 8 C; 2 G; 4 T; 0 other;

Query Match 63.8%; Score 13.4; DB 21; Length 19;
Best Local Similarity 93.3%; Pred. No. 1.8e+04;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CATCCTCACCCCTTGT 16
| | | | | | | | | | | | | | | | | |
Db 1 CATCCTCACCCCTAGT 15

RESULT 8

AAA79799

ID AAA79799 standard; DNA; 20 BP.

XX AC AAA79799;

XX DT 20-NOV-2000 (first entry)

XX DE Hepatitis B virus related oligonucleotide probe #62.

XX KW Hepatitis B virus; HBV; Hepatitis A virus; HAV; probe; detection;

XX KW mutation; high-density gene chip; ss.

XX OS Hepatitis B virus.

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XX CN1252452-A.
XX
XX
XX PD 10-MAY-2000.
XX
XX PF 24-SEP-1999; 99CN-0114460.
XX
XX PR 24-SEP-1999; 99CN-0114460.
XX
XX PA (UYDO-) UNIV DONGNAN.
XX
XX PI Sun X, Lu Z, Wang Y;
XX
XX DR WPI; 2000-443233/39.
XX
XX PT High-density gene chip making process -
XX
XX PS Example 1; Fig 15; 19pp; Chinese.
XX
XX CC The present invention describes a method which comprises making a high-
XX CC density gene chip, specifically for making high-density micro-array of
XX CC oligonucleotide probes. An oligonucleotide probe selecting process to
XX CC seek preferentially length variable and coverage variable probes is
XX CC provided to ensure identical cross melting temperature of probes to the
XX CC maximum limit, and this can make the cross control of gene chip
XX CC relatively simple and raise the reliability of the gene chip detecting
XX CC results. The process proposes a specific probe selection method for
XX CC detecting target sequence directly, detecting mutation in both specific
XX CC and non-specific sites and a probe overall arrangement scheme. AAA79738
XX CC to AAA80201 represent oligonucleotide probe sequences which are used in
XX CC examples from the present invention.
XX
XX SQ Sequence 20 BP; 5 A; 8 C; 2 G; 5 T; 0 other;

Query Match 63.8%; Score 13.4; DB 21; Length 20;
Best Local Similarity 93.3%; Pred. No. 1.8e+04;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CATCCTCACCCTTGT 16
DB 4 CATCCTCACCCTAGT 18

RESULT 9
ID AAA79800 standard; DNA; 20 BP.
AC AAA79800;
DT 20-NOV-2000 (first entry)
XX Hepatitis B virus related oligonucleotide probe #63.
DE Hepatitis B virus; HBV; Hepatitis A virus; HAV; probe; detection;
KW mutation; high-density gene chip; ss.
XX Hepatitis B virus.
OS
XX CN1252452-A.
XX
XX PD 10-MAY-2000.
XX
XX PF 24-SEP-1999; 99CN-0114460.
XX
XX PR 24-SEP-1999; 99CN-0114460.
XX
XX PA (UYDO-) UNIV DONGNAN.
XX
XX PI Sun X, Lu Z, Wang Y;
XX
XX DR WPI; 2000-443233/39.
XX
XX PT High-density gene chip making process -

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XX
XX PS Example 1; Fig 15; 19pp; Chinese.
XX
XX CC The present invention describes a method which comprises making a high-
XX CC density gene chip, specifically for making high-density micro-array of
XX CC oligonucleotide probes. An oligonucleotide probe selecting process to
XX CC seek preferentially length variable and coverage variable probes is
XX CC provided to ensure identical cross melting temperature of probes to the
XX CC maximum limit, and this can make the cross control of gene chip
XX CC relatively simple and raise the reliability of the gene chip detecting
XX CC results. The process proposes a specific probe selection method for
XX CC detecting target sequence directly, detecting mutation in both specific
XX CC and non-specific sites and a probe overall arrangement scheme. AAA79738
XX CC to AAA80201 represent oligonucleotide probe sequences which are used in
XX CC examples from the present invention.
XX
XX SQ Sequence 20 BP; 5 A; 8 C; 2 G; 5 T; 0 other;

Query Match 63.8%; Score 13.4; DB 21; Length 20;
Best Local Similarity 93.3%; Pred. No. 1.8e+04;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CATCCTCACCCTTGT 16
DB 3 CATCCTCACCCTAGT 17

RESULT 10
ID AAZ76077 standard; DNA; 21 BP.
XX AAZ76077;
AC AAZ76077;
DT 10-SEP-2001 (first entry)
XX Human biallelic marker downstream amplification primer SEQ ID NO:10433.
DE Human genome; biallelic marker; high density disequilibrium map;
KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
XX haplotyping; hybridisation; identification; characterisation;
KW amplification; single nucleotide polymorphism; SNP; PCR primer;
XX diagnosis; ss.
XX Homo sapiens.
OS
XX WO9954500-A2.
XX
XX PD 28-OCT-1999.
XX
XX PF 21-APR-1999; 99WO-IB00822.
XX
XX PR 21-APR-1998; 98US-0082614.
XX
XX PR 23-NOV-1998; 98US-0109732.
XX
XX PA (GEST ) GENSET.
XX
XX PI Cohen D, Blumenfeld M, Chumakov I;
XX
XX DR WPI; 2000-013267/01.
XX
XX PT Novel biallelic markers used to construct a high density disequilibrium
XX map of the human genome -
XX
XX PS Claim 9; Page 2455; 2745pp; English.
XX
XX CC AAZ65654 to AAZ69578 represent human biallelic markers from the present
XX CC invention, which contain a polymorphic base at position 24 of their
XX CC nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
XX CC primers for the biallelic markers. The biallelic markers of the
XX CC invention have a variety of uses: they can be used for high density
XX CC mapping of the human genome, and in complex association studies and
XX CC haplotyping studies which are useful in determining the genetic basis
XX CC for disease states. Compositions and methods of the invention can also

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CC be useful for the identification of the targets for the development of
 CC pharmaceutical agents and diagnostic methods, as well as the
 CC characterisation of the differential efficacious responses to and side
 CC effects from pharmaceutical agents acting on a disease as well as other
 CC treatment.
 CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297
 CC and 3367, are not actually given a sequence in the Sequence Listing
 CC from the present invention.

XX SQ Sequence 21 BP; 3 A; 8 C; 2 G; 8 T; 0 other;
 Query Match 63.8%; Score 13.4; DB 21; Length 21;
 Best Local Similarity 93.3%; Pred. No. 1.8e+04;
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 CTCACCCCTGTCTC 20
 |||||
 Db 7 CTCACCCCTGTCTC 21

RESULT 11

AAFS5056
 ID AAF55056 standard; DNA; 20 BP.

XX AC AAF55056;
 XX XX
 DT 15-MAY-2001 (first entry)

XX PCR primer used to amplify a fragment of the mumps genome.

XX Encapsidation protein; transcription protein; replication protein;
 KW cell targeting; gene therapy; attenuated virus; vaccine; mumps;
 KW PCR primer; ss.
 XX

OS Mumps virus.

XX WO200109309-A2.

XX PD 08-FEB-2001.

XX 02-AUG-2000; 2000WO-US21192.

XX 02-AUG-1999; 99US-0146664.

PR 23-JUN-2000; 2000US-0213654.

XX (AMHP) AMERICAN HOME PROD CORP.

XX Clarke DK, Johnson EJ, Sidhu MS, Udem SA;

XX WPI; 2001-123320/13.

XX Producing a recombinant mumps virus (MUV), useful as a mumps vaccine,
 PT by transfecting or transforming a host cell with a transcription vector
 PT comprising a MCV genome or antigenome, and an expression vector
 PT encoding trans-acting proteins -

XX Example 1; Page 37; 133pp; English.

XX PCR primers AAF55055-56 were used to amplify a fragment of the Mumps
 CC virus genome. The amplified fragment was used in the course of the
 CC invention. The specification describes a method for producing a
 CC recombinant mumps virus. The method comprises transfecting or
 CC transforming, in a rescue composition media, a host cell with a
 CC transcription vector comprising a genome or antigenome of mumps virus,
 CC and an expression vector encoding trans-acting proteins (NP, P and L).
 CC necessary for encapsidation, transcription and replication. The method
 CC is carried out under conditions sufficient to permit the co-expression
 CC of the vectors and the production of the recombinant virus. The
 CC recombinant virus has an ability to induce long-lasting immunity with a
 CC single dose and a relatively low level of genome recombination. The
 CC recombinantly produced Mumps viruses are useful in antibody generation,
 CC diagnostic, prophylactic and therapeutic applications, cell targeting,
 CC gene therapy, mutant virus preparation and immunogenic composition

CC preparation. The method may also produce an attenuated virus for use
 CC as a vaccine for preventing or ameliorating mumps infection.

XX SQ Sequence 20 BP; 1 A; 11 C; 2 G; 6 T; 0 other;

Query Match 62.9%; Score 13.2; DB 22; Length 20;
 Best Local Similarity 83.3%; Pred. No. 2.2e+04;
 Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 CATCTTCACCCCTGTCTC 19
 |||||
 Db 2 CCTCCTCACCCCTGTCTT 19

RESULT 12

ABT19438/c

ID ABT19438 standard; DNA; 20 BP.

XX AC ABT19438;

XX 16-APR-2003 (first entry)

XX Aspergillus fumigatus essential gene #1796.

XX Fungicide; cytostatic; essential gene; Aspergillus fumigatus; infection;
 KW cancer; contamination; biofilm; antibody; immune response; ds.

XX Aspergillus fumigatus.

XX WO200286090-A2.

XX 31-OCT-2002.

XX 23-APR-2002; 2002WO-US13142.

XX 23-APR-2001; 2001US-285697P.

PR 27-APR-2001; 2001US-287066P.

PR 05-JUN-2001; 2001US-295890P.

PR 09-JUL-2001; 2001US-303899P.

PR 31-AUG-2001; 2001US-316362P.

XX (ELIT-) ELITRA PHARM INC.

XX Jiang B, Tishkoff D, Zamudio C, Eroshkin AM, Hu W, Lemieux SM;

XX WPI; 2003-093124/08.

XX New purified or isolated nucleic acids of essential genes of
 PT Aspergillus fumigatus, useful for treating or preventing infections by
 PT A. fumigatus, or for treating a non-infectious disease in a subject
 PT e.g. cancer -

XX Disclosure; Page -; 175pp; English.

XX The invention relates to novel purified or isolated nucleic acids of
 CC essential genes of Aspergillus fumigatus. The isolated nucleic acids of
 CC the invention are used to treat or prevent infections by a pathogenic
 CC organism such as A. fumigatus, to treat a non-infectious disease in a
 CC subject (e.g. cancer), to prevent or contain contamination of an object
 CC by A. fumigatus, or to prevent or inhibit formation on a surface of a
 CC biofilm comprising A. fumigatus. The polynucleotides are useful for
 CC expressing recombinant protein for characterisation, screening or
 CC therapeutic use, as markers for host tissues in which the pathogenic
 CC organisms invade or reside, for comparing with the DNA sequence of A.
 CC fumigatus to identify duplicated genes or paralogues having the same or
 CC similar biochemical activity and/or function, for comparing with DNA
 CC sequences of other related or distant pathogenic organisms to identify
 CC potential orthologous essential or virulence genes, for selecting and
 CC making oligomers for attachment to a nucleic acid array for examination
 CC of expression patterns, for raising anti-protein antibodies, as an
 CC antigen to raise anti-DNA antibodies or to elicit another immune
 CC response, and for identifying polynucleotides encoding the other protein
 CC with which binding occurs or to identify inhibitors of the binding